USDA United States Department of Agriculture

Natural Resources Conservation Service

Montana Basin Outlook Report June 1, 2001

Basin Outlook Reports
and
Federal - State - Private
Cooperative Snow Surveys

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See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Natural Resources Conservation Service
Bozeman, Montana

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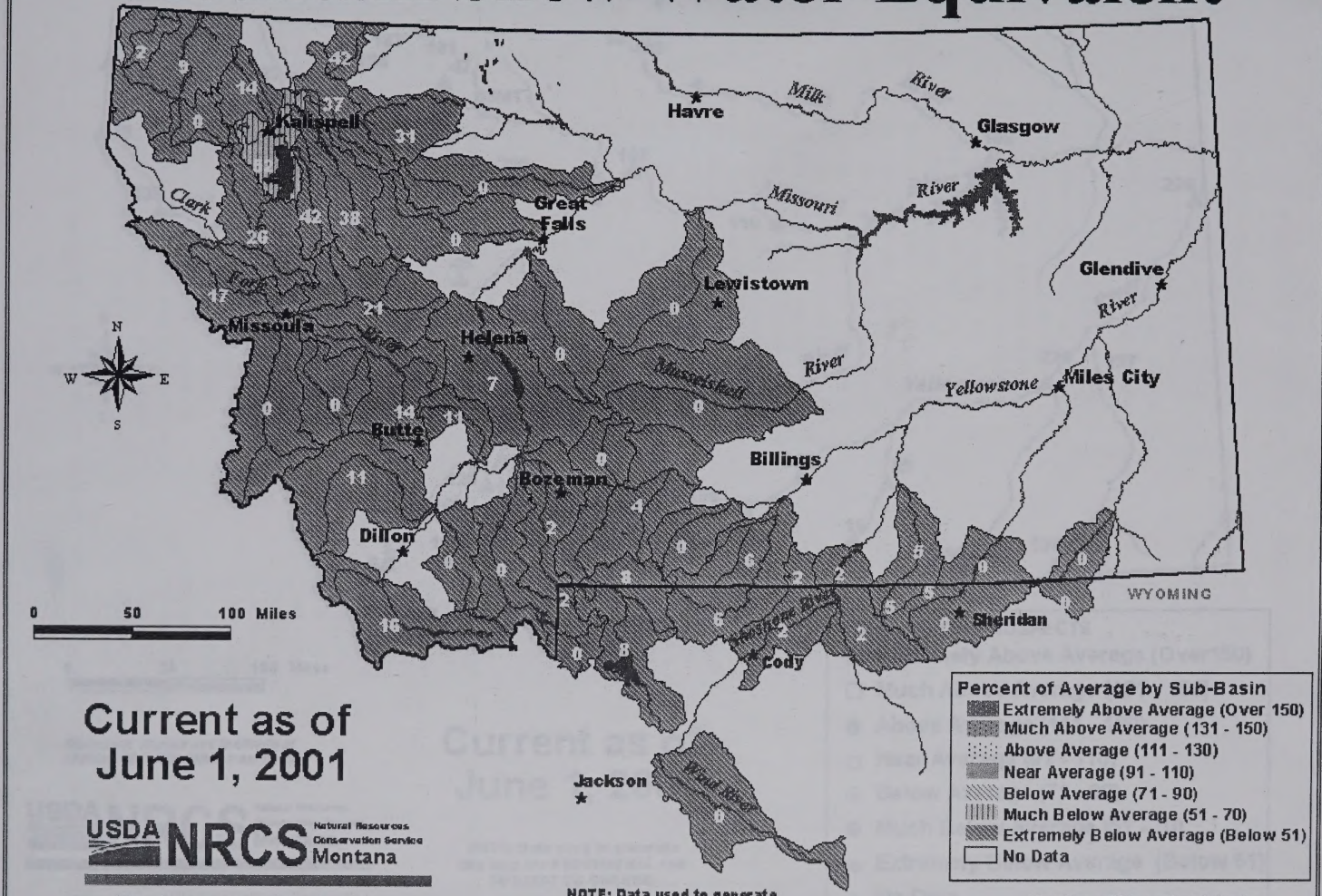
UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Mountain Snow Water Equivalent



Percent of Average by Sub-Basin

- Extremely Above Average (Over 150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)
- No Data

Numbers within each sub-basin represent the percent of average.

Current as of June 1, 2001

USDA NRCS Natural Resources Conservation Service Montana

http://www.mt.nrcs.usda.gov

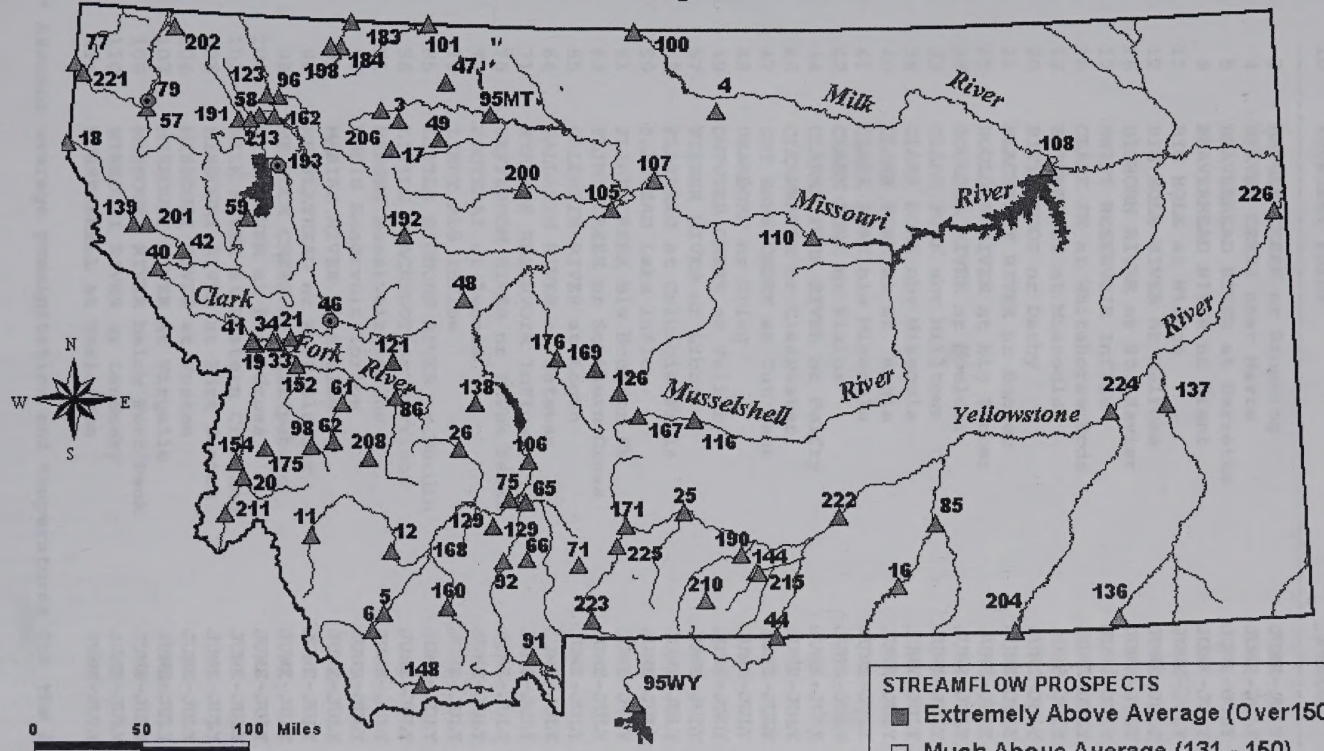
NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Mountain Snow Watershed Map

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana



STREAMFLOW PROSPECTS

- Extremely Above Average (Over150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)
- No Data

Numbers represent individual station identification numbers.

Current as of June 1, 2001

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

USDA NRCS Natural Resources Conservation Service Montana

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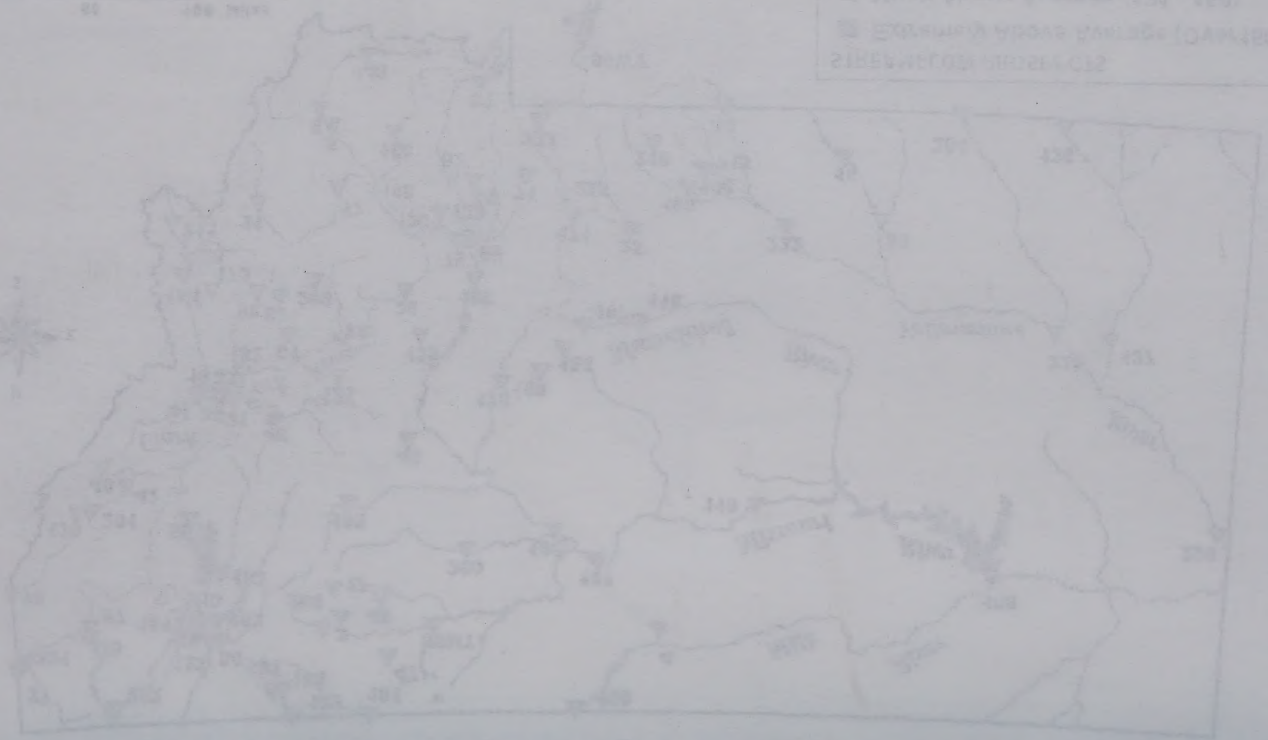

Streamflow Prospects for Montana

Streamflow Forecasts as of June 1, 2001

ID	Forecast Point	Period	% of Average*
3	BADGER CREEK nr Browning	JUNE-JULY	23 to 25
4	BEAVER CREEK near Havre	JUNE-JULY	0 to 3
5	BEAVERHEAD RIVER at Barretts	JUNE-JULY	27 to 30
6	BEAVERHEAD RIVER nr Grant	JUNE-JULY	16 to 19
11	BIG HOLE at Wisdom	JUNE-JULY	5 to 8
12	BIG HOLE RIVER nr Melrose	JUNE-JULY	26 to 27
16	BIGHORN RIVER nr St. Xavier	JUNE-JULY	28 to 31
17	SWIFT RESERVOIR Inflow	JUNE-JULY	18 to 20
18	CLARK FK at Whitehorse Rpds	JUNE-JULY	31 to 38
19	BITTERROOT at Missoula	JUNE-JULY	11 to 18
20	BITTERROOT nr Darby	JUNE-JULY	20 to 26
21	BLACKFOOT RIVER nr Bonner	JUNE-JULY	13 to 19
25	BOULDER RIVER at Big Timber	JUNE-JULY	31 to 33
26	BOULDER RIVER nr Boulder	JUNE-JULY	11 to 14
33	CLARK FORK abv Milltown	JUNE-JULY	21 to 29
34	CLARK FORK abv Missoula	JUNE-JULY	14 to 23
40	CLARK FORK at St. Regis	JUNE-JULY	20 to 22
41	CLARK FORK blw Missoula	JUNE-JULY	14 to 21
42	CLARK FORK nr Plains	JUNE-JULY	29 to 37
44	CLARKS FORK RIVER nr Belfry	JUNE-JULY	33 to 35
46	CLEARWATER nr Clearwater	JUNE-JULY	42 to 53
47	CUT BANK CREEK at Cut Bank	JUNE-JULY	11 to 12
48	DEARBORN nr Criag	JUNE-JULY	11 to 17
49	DUPUYER CREEK nr Valier	JUNE-JULY	15 to 26
57	FISHER RIVER nr Libby	JUNE-JULY	27 to 32
58	FLATHEAD at Columbia Falls	JUNE-JULY	22 to 30
59	FLATHEAD Lake Inflow	JUNE-JULY	39 to 43
61	FLINT CREEK blw Boulder Ck	JUNE-JULY	25 to 27
62	FLINT CREEK nr Southern Cross	JUNE-JULY	24 to 25
65	GALLATIN RIVER at Logan	JUNE-JULY	37 to 45
66	GALLATIN RIVER nr Gateway	JUNE-JULY	35 to 38
71	HYALITE RESERVOIR Inflow	JUNE-JULY	39 to 43
75	JEFFERSON RIVER nr Three Forks	JUNE-JULY	9 to 10
77	KOOTENAI at Leonia	JUNE-JULY	45 to 50
79	LIBBY RES Inflow	JUNE-JULY	47 to 52
85	LITTLE BIGHORN RIVER nr Hardin	JUNE-JULY	11 to 12
86	LITTLE BLACKFOOT nr Garrison	JUNE-JULY	21 to 24
91	HEBGEN Reservoir Inflow	JUNE-JULY	31 to 33
92	ENNIS Reservoir Inflow	JUNE-JULY	35 to 37
95	MARIAS RIVER nr Shelby	JUNE-JULY	16 to 19
96	MF FLATHEAD nr West Glacier	JUNE-JULY	24 to 31
98	MF ROCK CREEK nr Philipsburg	JUNE-JULY	30 to 33
100	MILK RIVER at East Cross.	JUNE-JULY	18 to 20
101	MILK RIVER at Western Crossing	JUNE-JULY	7 to 8
105	MISSOURI RIVER at Fort Benton	JUNE-JULY	23 to 27
106	MISSOURI RIVER at Toston	JUNE-JULY	18 to 19
107	MISSOURI RIVER at Virgelle	JUNE-JULY	18 to 22
108	MISSOURI RIVER below Fort Peck	JUNE-JULY	19 to 25
110	MISSOURI RIVER nr Landusky	JUNE-JULY	21 to 26
116	MUSSELSHELL at Harlowton	JUNE-JULY	1 to 1

* Assumes average precipitation and temperatures for the forecast period.

ID	Forecast Point	Period	% of Average*
121	NEVADA CREEK nr Finn	JUNE-JULY	22 to 26
126	NF MUSSELSHELL nr Delpine	JUNE-JULY	10 to 11
136	POWDER RIVER at Moorehead	JUNE-JULY	3 to 4
137	POWDER RIVER near Locate	JUNE-JULY	5 to 7
138	PRICKLY PEAR CREEK nr Clancy	JUNE-JULY	20 to 23
139	PROSPECT CREEK at Thompson Falls	JUNE-JULY	17 to 18
144	COONEY RESERVOIR Inflow	JUNE-JULY	20 to 26
148	LIMA RESERVOIR Inflow	JUNE-JULY	17 to 19
152	ROCK CREEK nr Clinton	JUNE-JULY	29 to 32
154	COMO RESERVOIR Inflow	JUNE-JULY	23 to 26
160	RUBY RIVER Reservoir Inflow	JUNE-JULY	30 to 33
162	HUNGRY HORSE Reservoir Inflow	JUNE-JULY	29 to 37
167	SF MUSSELSHELL abv Martinsdale	JUNE-JULY	3 to 4
169	SHEEP CREEK nr White Sulphur Spgs.	JUNE-JULY	23 to 26
171	SHIELDS RIVER nr Livingston	JUNE-JULY	12 to 16
175	SKALKAHO CK nr Hamilton	JUNE-JULY	29 to 31
176	SMITH RIVER abv Eagle Creek	JUNE-JULY	25 to 28
183	ST. MARY RIVER at US/CAN Border	JUNE-JULY	32 to 34
184	ST. MARY RIVER nr Babb	JUNE-JULY	36 to 38
190	STILLWATER RIVER nr Absarokee	JUNE-JULY	41 to 43
191	STILLWATER nr Whitefish	JUNE-JULY	25 to 27
192	GIBSON Reservoir Inflow	JUNE-JULY	33 to 36
193	SWAN RIVER nr Bigfork	JUNE-JULY	50 to 57
198	LAKE SHERBURNE Inflow	JUNE-JULY	38 to 44
200	TETON nr Dutton	JUNE-JULY	2 to 3
201	THOMPSON nr Thompson Falls	JUNE-JULY	24 to 27
202	TOBACCO RIVER nr Eureka	JUNE-JULY	26 to 30
204	TONGUE RIVER RESERVOIR Inflow	JUNE-JULY	24 to 26
206	TWO MEDICINE RIVER nr Browning	JUNE-JULY	10 to 11
208	WARM SPRINGS CK at Anaconda	JUNE-JULY	39 to 42
210	MYSTIC LAKE Reservoir Inflow	JUNE-JULY	42 to 44
211	WF BITTERROOT nr Conner	JUNE-JULY	18 to 20
213	WHITEFISH nr Kalispell	JUNE-JULY	17 to 18
215	LOWER WILLOW CK RES Inflow	JUNE-JULY	15 to 16
217	WILLOW CREEK Reservoir Inflow	JUNE-JULY	6 to 7
221	YAAK RIVER nr Troy	JUNE-JULY	36 to 40
222	YELLOWSTONE RIVER at Billings	JUNE-JULY	40 to 44
223	YELLOWSTONE RIVER at Corwin Spgs.	JUNE-JULY	42 to 45
224	YELLOWSTONE RIVER at Miles City	JUNE-JULY	28 to 32
225	YELLOWSTONE RIVER near Livingston	JUNE-JULY	41 to 43
226	YELLOWSTONE RIVER nr Sidney	JUNE-JULY	25 to 30
227	YELLOWSTONE at Lake Outlet	JUNE-JULY	41 to 42

* Assumes average precipitation and temperatures for the forecast period.

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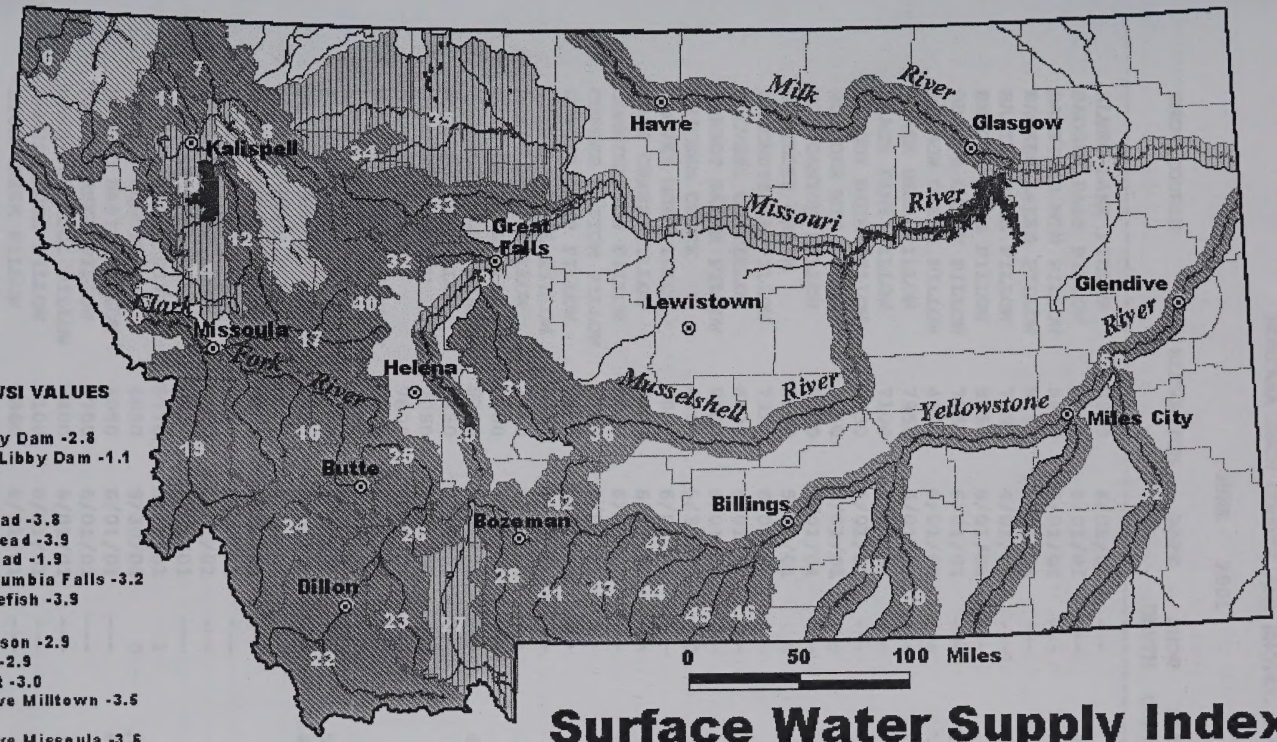


RIVER INDEX \ SWSI VALUES

2 Tobacco -3.8
3 Kootenai to Libby Dam -2.8
4 Kootenai below Libby Dam -1.1
5 Fisher -3.6
6 Yaak -3.9
7 North FK. Flathead -3.8
8 Middle FK. Flathead -3.9
9 South FK. Flathead -1.9
10 Flathead at Columbia Falls -3.2
11 Stillwater/Whitefish -3.9
12 Swan -3.1
13 Flathead at Polson -2.9
14 Mission Valley -2.9
15 Little Bitterroot -3.0
16 Clark Fork above Milltown -3.5
17 Blackfoot -3.8
18 Clark Fork above Missoula -3.6
19 Bitterroot -3.8
20 Clark Fork below Bitterroot -3.7
21 Clark Fork below Flathead -3.3
22 Beaverhead -3.0
23 Ruby -3.4
24 Big Hole -3.8
25 Boulder (Jefferson) -3.7
26 Jefferson -3.7
27 Madison -2.1
28 Gallatin -3.3
29 Missouri above Canyon Ferry -3.0
30 Missouri below Canyon Ferry -2.6
31 Smith -3.7
32 Sun -3.0
33 Teton -3.9
34 Birch/Dupuyer Creeks -3.9
35 Marias -2.6
36 Musselshell -3.9
37 Missouri above Fort Peck -2.0
38 Missouri below Fort Peck -2.1
39 Milk -3.8
40 Dearborn near Craig -3.9
41 Yellowstone above Livingston -3.5
42 Shields -3.8
43 Boulder (Yellowstone) -3.9
44 Stillwater -3.6
45 Rock/Red Lodge Creeks -3.7
46 Clarks Fork -3.9
47 Yellowstone above Bighorn -3.6
48 Bighorn below Bighorn Lake -3.1
49 Little Bighorn -3.8
50 Yellowstone below Bighorn -3.4
51 Tongue -3.2
52 Powder -3.9

Surface Water Supply Index (SWSI) Values

SWSI VALUES

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Sightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Current as of June 1, 2001

UDSA NRCS Natural Resources Conservation Service Montana

http://www.mt.nrcs.usda.gov

MONTANA SNOW COURSE AND SNOTEL DATA

JUNE 2001

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
ALBRO LAKE PILLOW	8300	6/01/01	---	.0	4.4	14.7
BADGER PASS PILLOW	6900	6/01/01	---	8.9	12.6	20.9
BANFIELD MTN PILLOW	5600	6/01/01	---	.0	.0	2.9
BARKER LAKES PILLOW	8250	6/01/01	---	.0	1.7	10.0
BASIN CREEK PILLOW	7180	6/01/01	---	.0	.1	4.7
BEAGLE SPGS PILLOW	8850	6/01/01	---	.0	.0	.9
BEAVER CREEK PILLOW	7850	6/01/01	---	.0	.0	9.7
BISSON CREEK PILLOW	4920	6/01/01	---	.0	.0	.0
BLACK BEAR PILLOW	7950	6/01/01	---	.0	22.5	27.5
BLACK PINE PILLOW	7100	6/01/01	---	.0	.3	2.4
BLOODY DICK PILLOW	7550	6/01/01	---	.0	.0	1.7
BOULDER MTN PILLOW	7950	6/01/01	---	.0	.1	10.5
BOX CANYON PILLOW	6700	6/01/01	---	.0	.0	.0
BOXELDER CREEK	5100	5/30/01	0	.0	.5	.0
BRACKETT CR PILLOW	7320	6/01/01	---	.0	.4	12.6
CALVERT CR PILLOW	6430	6/01/01	---	.0	.0	.0
CARROT BASIN PILLOW	9000	6/01/01	---	.0	15.3	24.7
CHICKEN CREEK	4060	5/30/01	0	.0	.0	.0
CLOVER MDW PILLOW	8800	6/01/01	---	.0	9.9	10.6
COLE CREEK PILLOW	7850	6/01/01	---	.0	1.8	12.9
COMBINATION PILLOW	5600	6/01/01	---	.0	.0	.0
COPPER BOTTOM PILLOW	5200	6/01/01	---	.0	.0	.0
COPPER CAMP PILLOW	6950	6/01/01	---	.0	.3	12.7
CRYSTAL LAKE PILLOW	6050	6/01/01	---	.0	.1	1.0
DAISY PEAK PILLOW	7600	6/01/01	---	.0	.4	2.5
DALY CREEK PILLOW	5780	6/01/01	---	.0	.0	.0
DARKHORSE LK. PILLOW	8700	6/01/01	---	6.9	19.3	28.5
DEADMAN CR PILLOW	6450	6/01/01	---	.0	.0	.0
DISCOVERY BASIN	7050	5/31/01	0	.0	.0	4.2
DIVIDE PILLOW	7800	6/01/01	---	.0	.0	1.7
DUPUYER CREEK PILLOW	5750	6/01/01	---	.0	1.3	.0
EMERY CREEK PILLOW	4350	6/01/01	---	.0	.0	.0
FISHER CREEK PILLOW	9100	6/01/01	---	5.0	23.5	31.7
FLATTOP MTN PILLOW	6300	6/01/01	---	14.3	30.9	34.4
FROHNER MDWS PILLOW	6480	6/01/01	---	.0	.0	1.2
GARVER CREEK PILLOW	4250	6/01/01	---	.0	.0	.0
GRAVE CRK PILLOW	4300	6/01/01	---	.0	.0	.0
HAND CREEK PILLOW	5030	6/01/01	---	.0	.0	.0
HAWKINS LAKE PILLOW	6450	6/01/01	---	.4	8.8	19.5
HELL ROARING DIVIDE	5770	5/31/01	1	.4	11.4	11.2
HERRIG JUNCTION	4850	5/30/01	0	.0	.0	2.4
HOODOO BASIN PILLOW	6050	6/01/01	---	8.9	20.4	29.2
KRAFT CREEK PILLOW	4750	6/01/01	---	.0	.0	.0
LAKEVIEW RDG. PILLOW	7400	6/01/01	---	.0	.0	.0
LEMHI RIDGE PILLOW	8100	6/01/01	---	.0	.0	2.8
LICK CREEK PILLOW	6860	6/01/01	---	.0	.0	.6
LONE MOUNTAIN PILLOW	8880	6/01/01	---	.0	8.3	13.0
LOWER TWIN PILLOW	7900	6/01/01	---	.0	5.8	13.5
LUBRECHT PILLOW	4680	6/01/01	---	.0	.1	.0
MADISON PLT PILLOW	7750	6/01/01	---	.0	1.0	7.5

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
MANY GLACIER PILLOW	4900	6/01/01	---	.0	.2	.0
MAYNARD CREEK	6210	6/01/01	0	.0	.0	3.2
MONUMENT PK PILLOW	8850	6/01/01	---	.0	13.9	16.2
MOSS PEAK PILLOW	6780	6/01/01	---	15.8	21.0	30.1
MT LOCKHART PILLOW	6400	6/01/01	---	.0	1.8	10.5
MULE CREEK PILLOW	8300	6/01/01	---	1.0	6.6	9.0
NEVADA RIDGE PILLOW	7020	6/01/01	---	.0	.4	4.0
NEZ PERCE CMP PILLOW	5650	6/01/01	---	.0	.0	.2
NOISY BASIN PILLOW	6040	6/01/01	---	11.5	25.8	30.2
N.F. ELK CR PILLOW	6250	6/01/01	---	.0	.5	.9
NF JOCKO PILLOW	6330	6/01/01	---	9.8	--	27.3
N.E. ENTRANCE PILLOW	7350	6/01/01	---	.0	.0	.2
OPHIR PARK	7150	5/28/01	0	.0	--	7.6
PETERSON MDW PILLOW	7200	6/01/01	---	.0	.2	2.7
PICKFOOT CRK PILLOW	6650	6/01/01	---	.0	.0	.0
PIKE CREEK PILLOW	5930	6/01/01	---	.0	.8	7.9
PLACER BASIN PILLOW	8830	6/01/01	---	.0	9.3	16.2
PORCUPINE PILLOW	6500	6/01/01	---	.0	.0	.0
REVAIS CREEK	4800	5/31/01	0	.0	.0	.0
ROCKER PEAK PILLOW	8000	6/01/01	---	2.1	3.7	13.2
ROCKY BOY PILLOW	4700	6/01/01	---	.0	.5	.0
ROCKY BOY	4700	5/30/01	0	.0	.4	.3
SADDLE MTN PILLOW	7900	6/01/01	---	.0	2.8	17.5
SHORT CREEK PILLOW	7000	6/01/01	---	.0	.0	.0
SHOWER FALLS PILLOW	8100	6/01/01	---	1.9	14.8	23.3
SKALKAHO PILLOW	7260	6/01/01	---	.0	4.2	15.8
S.F. SHIELDS PILLOW	8100	6/01/01	---	.0	8.0	13.3
SPUR PARK PILLOW	8100	6/01/01	---	.0	7.4	14.8
SLEEPING WOMAN PILL	6150	6/01/01	---	.0	.0	5.0
STAHL PEAK PILLOW	6030	6/01/01	---	7.6	23.7	27.3
STRYKER BASIN	6180	5/30/01	11	4.5	15.2	20.6
STUART MOUNTAIN PILL	7400	6/01/01	---	3.9	13.0	19.8
SUCKER CREEK	3960	5/30/01	0	.0	.0	.2
TAYLOR ROAD	4080	5/30/01	0	.0	.6	.4
TEPEE CREEK PILLOW	8000	6/01/01	---	.0	.7	5.3
TIZER BASIN PILLOW	6840	6/01/01	---	.0	.2	2.0
TV MOUNTAIN	6800	5/29/01	0	.0	.4	--
TWELVEMILE PILLOW	5600	6/01/01	---	.0	.0	.6
TWIN LAKES PILLOW	6400	6/01/01	---	.0	6.3	25.8
WALDRON PILLOW	5600	6/01/01	---	.0	.8	.0
WARM SPRINGS PILLOW	7800	6/01/01	---	5.2	10.1	19.6
WEST YELL'ST PILLOW	6700	6/01/01	---	.0	.0	.0
WHISKEY CREEK PILLOW	6800	6/01/01	---	.0	.0	1.2
WHITE MILL PILLOW	8700	6/01/01	---	1.0	17.8	19.4
WOOD CREEK PILLOW	5960	6/01/01	---	.0	1.0	.1

Montana Water Supply Outlook Report as of June 1, 2001

May was a month of above average temperatures and below average precipitation. Temperatures west of the divide were generally 2 to 4 degrees above average while those east of the divide were generally 2 to 8 degrees above average. Precipitation was variable with some areas of north eastern Montana being near average and some areas in southwestern and central Montana ranging from severely below average to near record lows for May.

Snowpack

As of June 1, remaining mountain snow water contents were generally ranging from well below average (50% to 70%) to severely below average (<50%). Statewide, mountain snow water content was 12 percent of average and 21 percent of last year. West of the Continental Divide, snowpack was 20 percent of average and 33 percent of last year and East of the continental Divide, snowpack was 7 percent of average and 13 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	20	33
KOOTENAI	13	16
FLATHEAD	32	43
UPPER CLARK FORK	15	32
BITTERROOT	0	--
LOWER CLARK FORK	17	27
MISSOURI	7	15
MISSOURI HEADWATERS	5	10
JEFFERSON	7	18
MADISON	0	--
GALLATIN	2	5
MISSOURI MAINSTEM	14	35
HEADWATERS MAINSTEM	7	48
SMITH-JUDITH-MUSSELSHELL	0	--
SUN-TETON-MARIAS	23	49
MAINSTEM ABOVE FT. PECK RES	12	36
ST. MARY	42	46
YELLOWSTONE	3	7
UPPER YELLOWSTONE	4	8
LOWER YELLOWSTONE (WYOMING)	1	3
WIND	0	--
SHOSHONE	2	4
BIGHORN	2	4
TONGUE	0	--
POWDER	0	--

Precipitation

May mountain and valley precipitation across the state was 38 percent of average and 43 percent of last year, while the water year precipitation was 67 percent of average and 76 percent of last year.

West of the Continental Divide, May mountain and valley precipitation was 44 percent of average and 56 percent of last year and the water year precipitation was 66 percent of average and 70 percent of last year. East of the Divide, May mountain and valley precipitation was 36 percent of average and 39 percent of last year and the water year precipitation was 68 percent of average and 80 percent of last year.

RIVER BASIN	MAY % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	44	66
KOOTENAI	52	54
FLATHEAD	38	65
UPPER CLARK FORK	42	75
BITTERROOT	58	68
LOWER CLARK FORK	50	62

Precipitation (continued)

MISSOURI	33	69
JEFFERSON	37	76
MADISON	51	69
GALLATIN	38	66
MISSOURI MAINSTEM	27	71
SMITH-JUDITH-MUSSELSHELL	27	67
SUN-TETON-MARIAS	23	67
MILK	29	55
ST. MARY	41	54
YELLOWSTONE	49	67
UPPER YELLOWSTONE	52	68
LOWER YELLOWSTONE (WYOMING)	47	70
WIND	65	59
SHOSHONE	54	75
BIGHORN	32	68
TONGUE	52	70
POWDER	77	75

Reservoirs

Major reservoir storages statewide were 102 percent of average and 98 percent of last year.

Reservoir storage west of the Continental Divide was 108 percent of average and 102 percent of last year. East of the Continental Divide, reservoir storages were 92 percent of average and 92 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	108	102
KOOTENAI	117	114
FLATHEAD	101	93
UPPER CLARK FORK	87	195
BITTERROOT	110	97
LOWER CLARK FORK	110	98
MISSOURI	91	94
JEFFERSON	64	67
MADISON	112	100
GALLATIN	146	102
MISSOURI MAINSTEM	96	102
SMITH-JUDITH-MUSSELSHELL	24	41
SUN-TETON-MARIAS	96	92
MILK	21	36
ST. MARY	45	88
YELLOWSTONE	98	86
UPPER YELLOWSTONE	115	92
LOWER YELLOWSTONE	98	86

Streamflow

SEASONAL STREAMFLOW FORECASTS

Statewide, streamflow forecasts average between 24 and 28 percent of average. West of the Continental Divide, streamflow forecasts average between 26 and 31 percent and east of the Continental Divide, streamflow forecasts average between 23 and 26 percent. Streamflow forecasts are 40 to 50 percent below those forecast at this time last year. Streams crested about 2 to 3 weeks earlier than normal and the crests were generally below to well below average. Without well above average rain, there will be severe water shortages during the summer. Following the heels of a dry summer last year this summer is shaping up to be worse yet. All water users need to conserve where possible.

The rain and snow storms that passed through Montana on June 2 through June 4 added welcome moisture. Streams in Northwestern, Northcentral, and Central Montana showed the largest rise from the storms. Other areas benefitted mainly from soil moisture gains. These type storms are what is needed through the summer to lessen the impacts of the current drought conditions.

Streamflow (continued)

Below are averaged river basin streamflow forecast summaries for the period June 1 through July 31. THE FORECASTS ON THE LOW END REPRESENT BELOW AVERAGE PRECIPITATION AND THE HIGH END REPRESENT ABOVE AVERAGE PRECIPITATION. IF THERE IS NEAR AVERAGE PRECIPITATION THE FLOW WOULD FALL BETWEEN THE TWO NUMBERS. THESE FORECASTS DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	JUNE-JULY THIS YEAR % OF AVERAGE	JUNE-JULY LAST YEAR % OF AVERAGE
COLUMBIA	26 to 31	63 to 80
KOOTENAI	36 to 41	74 to 95
FLATHEAD	27 to 33	74 to 89
UPPER CLARK FORK	25 to 29	44 to 61
BITTERROOT	20 to 24	60 to 76
LOWER CLARK FORK	21 to 27	64 to 80
MISSOURI	20 to 23	46 to 70
JEFFERSON	16 to 18	34 to 55
MADISON	33 to 35	66 to 78
GALLATIN	37 to 42	70 to 83
MISSOURI MAINSTEM	19 to 23	42 to 73
SMITH-JUDITH-MUSSELSHELL	12 to 14	44 to 72
SUN-TETON-MARIAS	16 to 19	50 to 80
MILK	12 to 14	28 to 65
ST. MARY	35 to 39	65 to 76
YELLOWSTONE	26 to 28	56 to 79
UPPER YELLOWSTONE	34 to 37	63 to 81
LOWER YELLOWSTONE	18 to 20	50 to 77

NOTE: The JUNE-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on June 1, NOT of what actually occurred.

SNOWMELT PEAK STREAMFLOW FORECASTS

WATERSHED	SNOWMELT PEAK FLOW DATES
COLUMBIA RIVER	
Fisher and Yaak Rivers	Peaked on Apr 29
Yaak River near Troy	Peaked on May 25
North Fork Flathead River near Columbia Falls	Peaked on May 26
Middle Fork Flathead River near West Glacier	Peaked on May 26
Hungry Horse Reservoir inflow	Peaked on May 26
Lower Willow Res. inflow	Peaked on May 13-14
Swan River	May 29 to May 31
Blackfoot River near Bonner	Peaked on May 16

WATERSHED SNOWMELT PEAK FLOW DATES

COLUMBIA RIVER	
Clark Fork above Missoula	Peaked on May 16
Clark Fork below Missoula	Peaked on May 16
Bitterroot River near Darby	Peaked on May 16
Nevada Creek near Finn	Peaked on May 16
Middle Fork Rock Creek	Peaked on May 15
MISSOURI RIVER	
Clark Canyon Res. inflow	Peaked on Apr 30
Ruby Res. inflow	Peaked on May 14
Big Hole near Melrose	Peaked on May 16
Hebgen Res. inflow	Peaked on May 16
Gallatin River near Gateway	Peaked on May 15

MISSOURI RIVER (continued)
Gallatin River near Logan ..... Peaked on May 16
Missouri at Toston ..... Peaked on May 16
S. Fk. Musselshell above Martinsdale .... Peaked on May 2-3
Sheep Creek near White Sulphur Springs .. Peaked on Apr 29
Smith River at Ft. Logan ..... Peaked on May 7
Smith River below Eagle Creek ..... Peaked on May 1
Gibson Reservoir inflow ..... Peaked on May 26
Swift Reservoir inflow ..... Peaked on May 28
YELLOWSTONE RIVER
Yellowstone at Corwin Springs ..... Peaked on May 15-16
Yellowstone at Livingston ..... Peaked on May 16
Boulder near Big Timber ..... Peaked on May 15
Stillwater near Absarokee ..... Peaked on May 16
Rock Creek near Red Lodge ..... Peaked on May 14
Clarks Fork near Belfry ..... Peaked on May 16
Yellowstone at Billings ..... Peaked on May 16

PEAK STREAMFLOW FORECASTS FOR UNREGULATED STREAMS ARE AS FOLLOWS:

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
COLUMBIA RIVER			
Fisher Creek nr Libby...	Peaked at 1,370*.....	56	 2,466
Yaak River nr Troy	Peaked at 2,045*.....	34	 6,021
Blackfoot near Bonner...	Peaked at 4,140*.....	43	 9,588
Clark Fork ab Missoula .	Peaked at 6,780*.....	41	 16,738
Bitterroot near Darby ..	Peaked at 3,260*.....	52	 6,229
Clark Fork blw Missoula	Peaked at 15,200*.....	48	 31,992
Clark Fork at St. Regis	Peaked at 19,500*.....	49	 39,984
North Fork Flathead near Columbia Falls	Peaked at 11,000*.....	52	 21,189
Middle Fork Flathead near West Glacier	Peaked at 12,400*.....	55	 22,463
Hungry Horse Res Inflow	Peaked at 12,500*.....	44	 28,600
Lower Willow Creek Reservoir Inflow	Peaked at 108*.....	--	..... -----
Swan at Big Fork.....	1,900 to 3,800	36 to 73	 5,228
Nevada Creek near Finn..	Peaked at 98*.....	29	 334
Middle Fork Rock Creek near Philipsburg.....	Peaked at 433*.....	51	 853
MISSOURI RIVER			
Big Hole near Melrose ..	Peaked at 2,380*.....	30	 8,015
Inflow Clark Canyon Dam	Peaked at 162*.....	--	..... -----
Inflow Ruby Reservoir ..	Peaked at 556*.....	54	 1,037
Inflow Hebgen Reservoir	Peaked at 2,840*.....	83	 3,442
Gallatin near Gateway ..	Peaked at 3,479*.....	65	 5,389
Gallatin near Logan	Peaked at 2,280*.....	41	 5,581
Missouri at Toston	Peaked at 6,470*.....	34	 19,042
MISSOURI RIVER (continued)			
Marias near Shelby	Peaked at 2,530*.....	22	 11,516
Inflow Gibson Reservoir	Peaked at 3,065*.....	--	..... -----
Inflow Swift Reservoir .	Peaked at 322*.....	--	..... -----
Sheep Creek near White Sulphur Springs	Peaked at ---	--	 212
Smith at Ft. Logan	Peaked at 176*.....	--	..... -----
Smith below Eagle Cr. ..	Peaked at 447*.....	--	..... -----
S. Fk. Musselshell above Martinsdale	Peaked at 79*.....	6	 1,229

PEAK STREAMFLOW FORECASTS (continued)

YELLOWSTONE RIVER			
Yellowstone at Corwin Springs	Peaked at 12,400*.....	71	 17,532
Yellowstone at Livingston	Peaked at 13,900*.....	67	 20,732
Boulder near Big Timber	Peaked at 2,800*.....	54	 5,226
Stillwater nr Absarokee	Peaked at ---	--	 6,601
Rock Creek nr Red Lodge	Peaked at 341*.....	--	..... -----
Clarks Fork near Belfry	Peaked at 4,560*.....	59	 7,706
Yellowstone at Billings	Peaked at 20,200*.....	47	 42,716

* REPORTED PEAK FLOWS ARE PROVISIONAL DATA AND SUBJECT TO CHANGE.

NOTE: The low number in the flow range represents the maximum daily flow that would be expected to occur with little rainfall during the peak snowmelt period. The high number in the flow range could be expected with moderate amounts of rain about the same time as maximum snowmelt runoff is occurring.

Surface Water Supply Index

The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

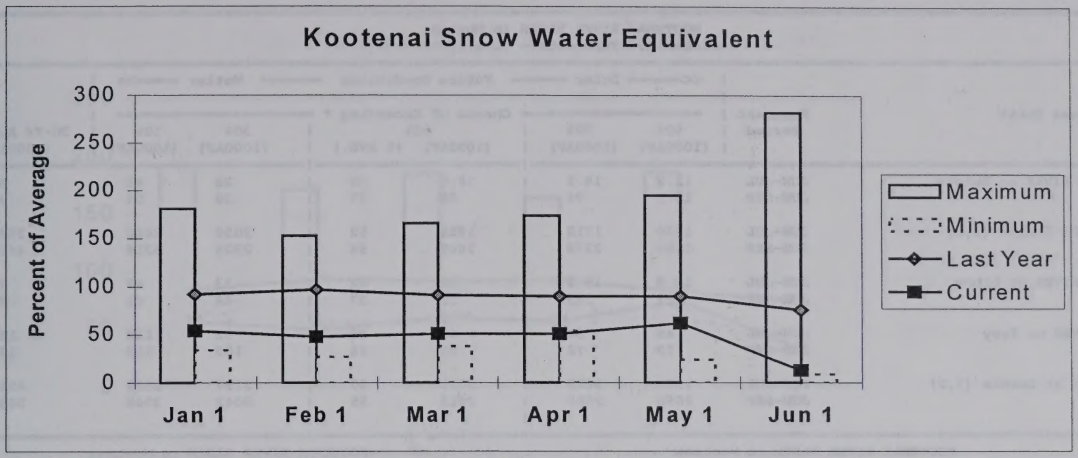
SWSI	Basin
-3.5	Kootenai River at Ft. Steele (Kootenai in Canada)
-3.8	Tobacco River
-2.8	Kootenai Ft. Steele to Libby Dam
-1.1	Kootenai River below Libby Dam
-3.6	Fisher River
-3.9	Yaak River
-3.8	North Fork Flathead River
-3.9	Middle Fork Flathead River
-1.9	South Fork Flathead River
-3.2	Flathead River at Columbia Falls
-3.9	Stillwater/Whitefish Rivers
-3.1	Swan River
-2.9	Flathead River at Polson
-2.9	Mission Valley
-3.0	Little Bitterroot River
-3.5	Clark Fork River above Milltown
-3.8	Blackfoot River
-3.6	Clark Fork River above Missoula
-3.8	Bitterroot River
-3.7	Clark Fork River below Bitterroot River
-3.3	Clark Fork River below Flathead River
-3.0	Beaverhead River
-3.4	Ruby River
-3.8	Big Hole River
-3.7	Boulder River (Jefferson)
-3.7	Jefferson River
-2.1	Madison River
-3.3	Gallatin River
-3.0	Missouri River above Canyon Ferry
-2.6	Missouri River below Canyon Ferry
-3.7	Smith River
-3.0	Sun River
-3.9	Teton River
-3.9	Birch/Dupuyer Creeks

Surface Water Supply Index (continued)

-2.6	Marias River
-3.9	Musselshell River
-2.0	Missouri River above Ft. Peck
-2.1	Missouri River below Ft. Peck
-3.8	Milk River
-3.9	Dearborn River near Craig
-3.5	Yellowstone River above Livingston
-3.8	Shields River
-3.9	Boulder River (Yellowstone)
-3.6	Stillwater River
-3.7	Rock/Red Lodge Creeks
-3.9	Clarks Fork River
-3.6	Yellowstone River above Bighorn River
-3.1	Bighorn River below Bighorn Lake
-3.8	Little Bighorn River
-3.4	Yellowstone River below Bighorn River
-3.2	Tongue River
-3.9	Powder River

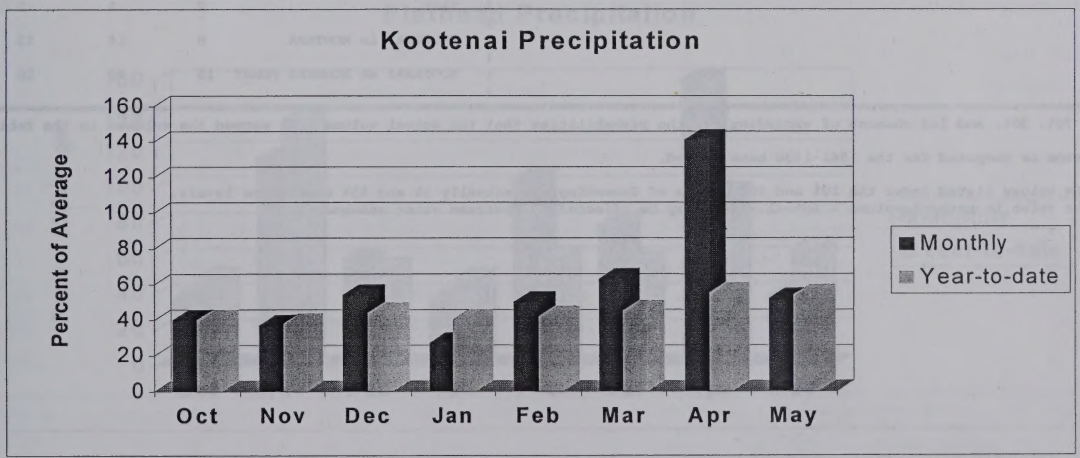
Kootenai River Basin in Montana

Snowpack conditions in the Kootenai River Basin were severely below average for this time of year and tied for second lowest of record. Snow water content was 13 percent of average and 16 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 1977; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain precipitation during May was 52 percent of average and 65 percent of last year. Valley precipitation during May was 51 percent of average and 54 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 54 percent of average and 54 percent of last year.



Lake Koocanusa storage was 117 percent of average and 114 percent of last year.

Surface Water Supply Index (SWSI) was -3.5 in the Kootenai at Ft. Steele (Kootenai in Canada); -3.8 in the Tobacco River; -2.8 in the Kootenai Ft. Steele to Libby Dam; -1.1 in the Kootenai River below Libby Dam; -3.6 in the Fisher River; and -3.9 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	JUN-JUL	12.2	16.1	18.8	30	28	41	62
	JUN-SEP	18.1	24	28	37	38	54	76
LIBBY RES Inflow (1,2)	JUN-JUL	1330	1712	1885	52	2058	2440	3633
	JUN-SEP	1884	2376	2600	56	2824	3316	4626
FISHER RIVER nr Libby	JUN-JUL	13.8	18.9	22	32	33	49	70
	JUN-SEP	21	28	32	37	44	61	86
YAAK RIVER nr Troy	JUN-JUL	45	54	61	40	82	113	151
	JUN-SEP	59	72	80	46	103	136	174
KOOTENAI at Leonia (1,2)	JUN-JUL	1391	1813	2005	50	2197	2619	4010
	JUN-SEP	2090	2588	2815	55	3042	3540	5090

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	3735.0	3272.0	3186.0

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
KOOTENAY in CANADA	7	25	29
KOOTENAI MAINTSTEM	3	10	9
TOBACCO	2	32	28
FISHER	1	0	0
YAAK	2	5	2
KOOTENAI in MONTANA	8	16	13
KOOTENAI ab BONNERS FERRY	15	20	20

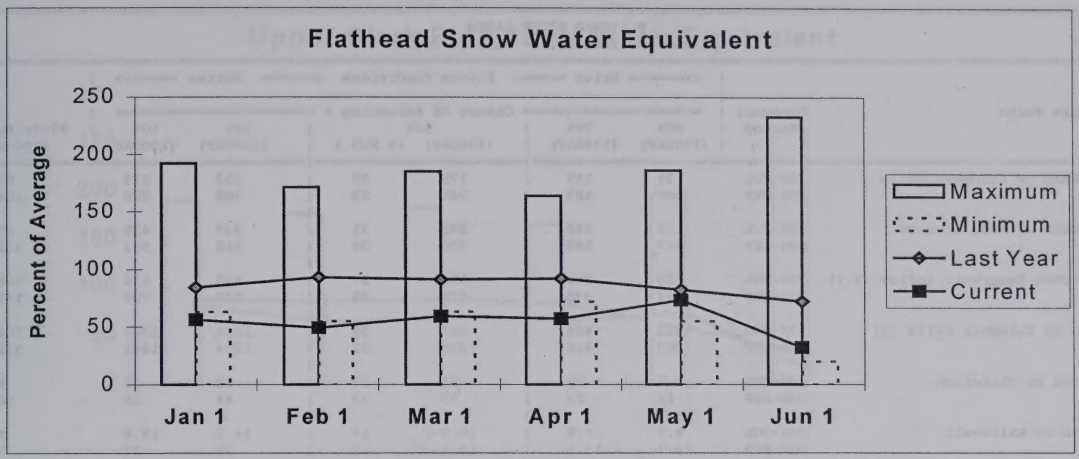
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

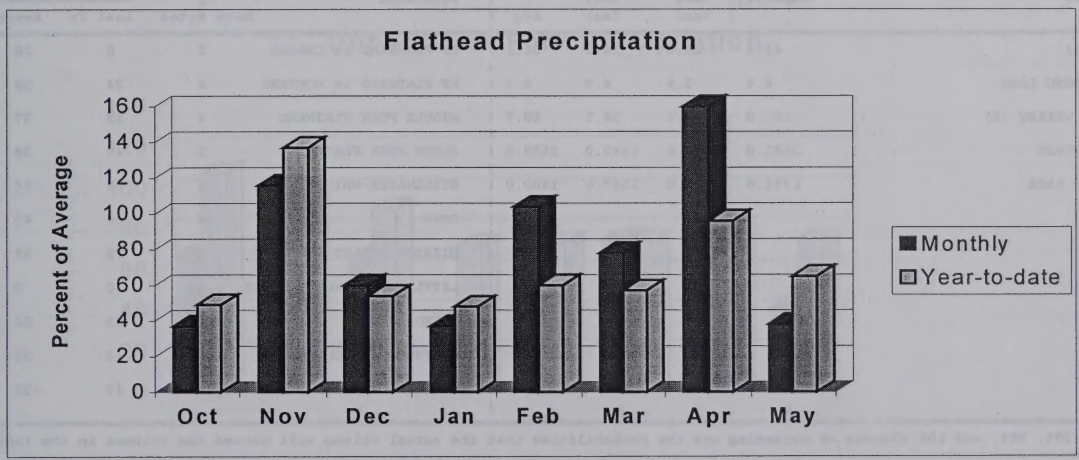
Flathead River Basin

Snowpack conditions in the Flathead River Basin were severely below average and third lowest of record. Snow water content was 32 percent of average and 43 percent of last year.



January maximum swe was established in 1997 and minimum was in 1988; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum was in 1992; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1961 through 1990.

Mountain precipitation during May was 40 percent of average and 54 percent of last year. Valley precipitation during May was 13 percent of average and 14 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 65 percent of average and 64 percent of last year.



Combined Camas reservoir storage was 73 percent of average and 62 percent of last year; Lower Jocko Lake was 88 percent of average and 84 percent of last year; combined Mission Valley reservoir storage was 104 percent of average and 133 percent of last year; Hungry Horse storage was 100 percent of average and 90 percent of last year; and Flathead Lake storage was 102 percent of average and 96 percent of last year.

Surface Water Supply Index (SWSI) was -3.8 in the North Fork Flathead River; -3.9 in the Middle Fork Flathead River; -1.9 in the South Fork Flathead River; -3.2 in the Flathead River at Columbia Falls; -3.9 in the Stillwater/Whitefish Rivers; -3.1 in the Swan River; -2.9 in the Flathead River at Polson; -2.9 in the Mission Valley; and -3.0 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	JUN-JUL	31	117	175	20	233	319	872
	JUN-SEP	102	187	245	23	303	388	1046
MF FLATHEAD nr West Glacier	JUN-JUL	122	213	275	31	337	428	877
	JUN-SEP	197	288	350	34	412	503	1027
HUNGRY HORSE Reservoir Inflow (1,2)	JUN-JUL	120	295	375	37	455	630	1019
	JUN-SEP	194	370	450	39	530	706	1153
FLATHEAD at Columbia Falls (2)	JUN-JUL	303	626	845	30	1064	1387	2840
	JUN-SEP	509	846	1075	32	1304	1641	3317
STILLWATER nr Whitefish	JUN-JUL	16.5	20	23	27	32	45	82
	JUN-SEP	24	29	33	33	44	59	101
WHITEFISH nr Kalispell	JUN-JUL	8.9	9.8	10.5	18	14.2	19.6	58
	JUN-SEP	13.7	15.1	16.1	23	20	27	71
SWAN RIVER nr Bigfork	JUN-JUL	128	161	183	57	223	282	321
	JUN-SEP	173	212	239	59	285	353	404
FLATHEAD Lake Inflow (1,2)	JUN-JUL	959	1286	1435	43	1584	1911	3315
	JUN-SEP	1093	1514	1705	44	1896	2317	3850

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)	45.2	22.6	36.2	31.1
LOWER JOCKO LAKE	6.4	3.6	4.3	4.1
MISSION VALLEY (8)	100.0	71.7	54.1	68.9
HUNGRY HORSE	3451.0	2660.0	2940.0	2659.0
FLATHEAD LAKE	1791.0	1508.0	1567.0	1480.0

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	2	0	28
NF FLATHEAD in MONTANA	6	34	30
MIDDLE FORK FLATHEAD	4	52	37
SOUTH FORK FLATHEAD	2	45	38
STILLWATER-WHITEFISH	5	18	14
SWAN	4	58	42
MISSION VALLEY	2	75	52
LITTLE BITTERROOT-ASHLEY	0	0	0
JOCKO	4	29	26
FLATHEAD in MONTANA	20	43	32
FLATHEAD RIVER BASIN	22	43	32

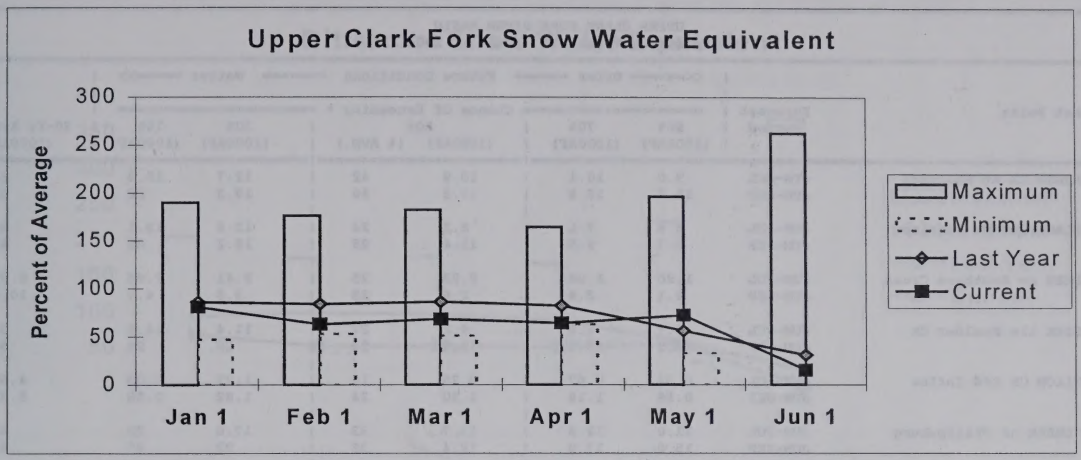
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

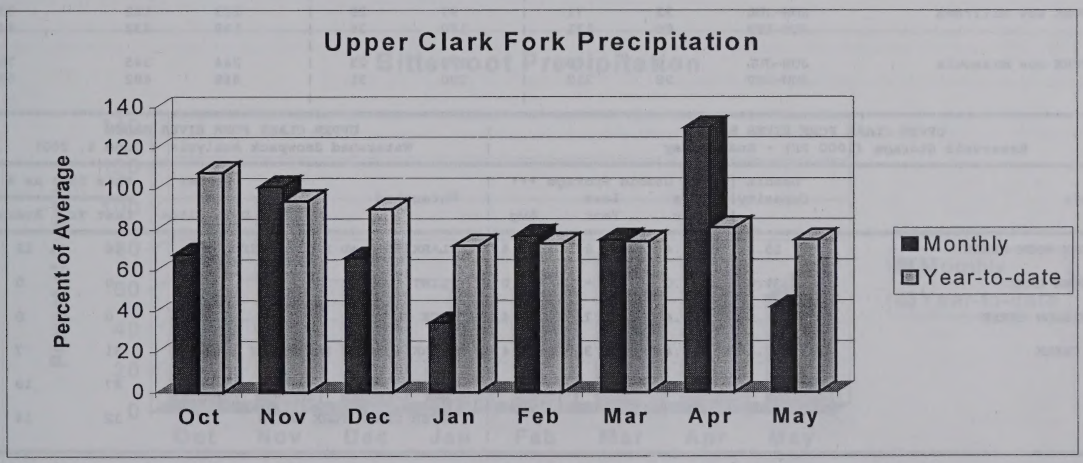
Upper Clark Fork River Basin

Snowpack conditions in the Upper Clark Fork River Basin were severely below average and third lowest of record. Snow water content was 15 percent of average and 32 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum was in 1994; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1961 through 1990.

Mountain precipitation during May was 42 percent of average and 59 percent of last year. Valley precipitation during May was 41 percent of average and 45 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 75 percent of average and 91 percent of last year.



Lower Willow Creek storage was 100 percent of average and 119 percent of last year; and Nevada Creek storage was 82 percent of average and 83 percent of last year.

Surface Water Supply Index (SWSI) was -3.5 in the Clark Fork River above Milltown; -3.8 in the Blackfoot River; and -3.6 in the Clark Fork River above Missoula.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WARM SPRINGS CK at Anaconda	JUN-JUL	9.0	10.1	10.9	42	12.7	15.3	26
	JUN-SEP	15.2	16.6	17.5	50	19.3	22	35
LITTLE BLACKFOOT nr Garrison	JUN-JUL	5.6	7.1	8.2	24	12.6	19.1	34
	JUN-SEP	6.7	9.5	11.4	28	18.2	28	41
FLINT CREEK nr Southern Cross	JUN-JUL	1.80	1.94	2.03	25	2.41	2.96	8.00
	JUN-SEP	2.1	2.4	2.6	25	3.5	4.7	10.6
FLINT CREEK blw Boulder Ck	JUN-JUL	7.7	8.6	9.2	27	11.4	14.6	34
	JUN-SEP	15.9	17.1	18.0	36	20	24	50
LOWER WILLOW CK RES Inflow	JUN-JUL	0.54	0.67	0.75	16	1.27	2.03	4.60
	JUN-SEP	0.99	1.18	1.30	24	1.82	2.58	5.50
MF ROCK CREEK nr Philipsburg	JUN-JUL	11.0	12.6	13.7	33	17.0	22	42
	JUN-SEP	15.0	17.0	18.4	38	22	27	49
ROCK CREEK nr Clinton	JUN-JUL	40	48	53	32	69	92	165
	JUN-SEP	61	71	77	38	94	119	202
NEVADA CREEK nr Finn	JUN-JUL	1.33	1.68	1.91	26	2.81	4.13	7.50
	JUN-SEP	2.11	2.59	2.92	32	3.94	5.44	9.20
CLEARWATER nr Clearwater	JUN-JUL	17.8	28	34	53	41	51	65
	JUN-SEP	24	34	41	55	47	57	74
BLACKFOOT RIVER nr Bonner	JUN-JUL	14.0	53	80	19	107	146	414
	JUN-SEP	63	103	130	26	157	197	505
CLARK FORK abv Milltown	JUN-JUL	32	71	97	29	123	162	339
	JUN-SEP	88	131	160	36	189	232	442
CLARK FORK abv Missoula	JUN-JUL	7.0	108	176	23	244	345	753
	JUN-SEP	98	212	290	31	368	482	947

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	6.4	9.2	11.4
GEORGETOWN LAKE	31.0	27.0	---	27.0
LOWER WILLOW CREEK	4.9	4.4	3.7	4.4
NEVADA CREEK	12.6	9.4	11.3	11.4

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	6	46	12
FLINT CREEK	4	0	0
ROCK CREEK	2	0	0
CLARK FORK ab BLACKFOOT	10	31	7
BLACKFOOT	8	27	19
UPPER CLARK FORK BASIN	17	32	14

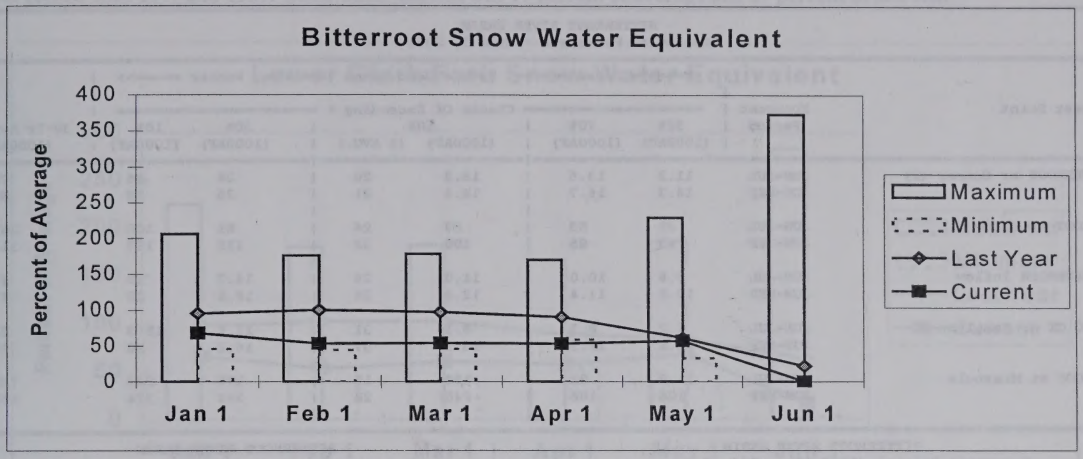
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

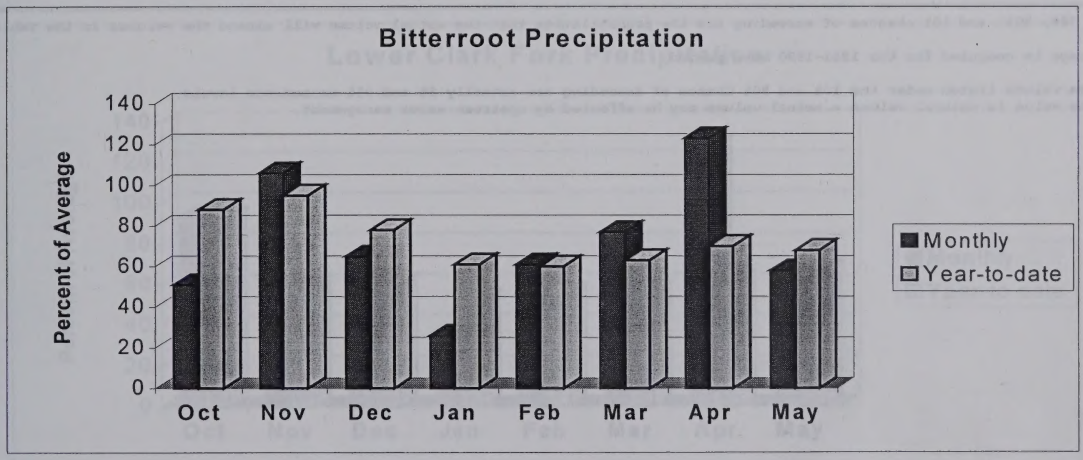
Bitterroot River Basin

Snowpack conditions in the Bitterroot River Basin were severely below average and tied for the lowest years of record with 1987, 1992, and 1994. All the sites in the basin have melted out.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1977; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987 and 1992. Average is for the period 1961 through 1990.

Mountain precipitation during May was 62 percent of average and 72 percent of last year. Valley precipitation during May was 33 percent of average and 44 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 68 percent of average and 75 percent of last year.



Painted Rocks Lake storage was 107 percent of average and 100 percent of last year and Como storage was 113 percent of average and 94 percent of last year.

Surface Water Supply Index (SWSI) was -3.8 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	JUN-JUL	11.2	13.6	15.3	20	24	36	75
	JUN-SEP	14.3	16.7	18.4	21	26	38	89
BITTERROOT nr Darby	JUN-JUL	32	53	67	26	81	102	262
	JUN-SEP	63	85	100	32	115	137	311
COMO RESERVOIR Inflow	JUN-JUL	8.6	10.0	11.0	26	14.7	20	43
	JUN-SEP	10.0	11.4	12.4	26	16.1	22	47
SKALKAHO CK nr Hamilton	JUN-JUL	7.2	8.3	9.1	31	11.6	15.3	29
	JUN-SEP	10.8	12.3	13.3	37	16.1	20	36
BITTERROOT at Missoula	JUN-JUL	11.0	82	130	18	178	249	735
	JUN-SEP	106	186	240	28	294	374	855

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	32.4	32.4	30.4
COMO	34.9	32.8	34.9	28.9

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
WEST FORK BITTERROOT	2	0	0
EAST SIDE BITTERROOT	3	0	0
WEST SIDE BITTERROOT	3	0	0
BITTERROOT RIVER BASIN	7	0	0

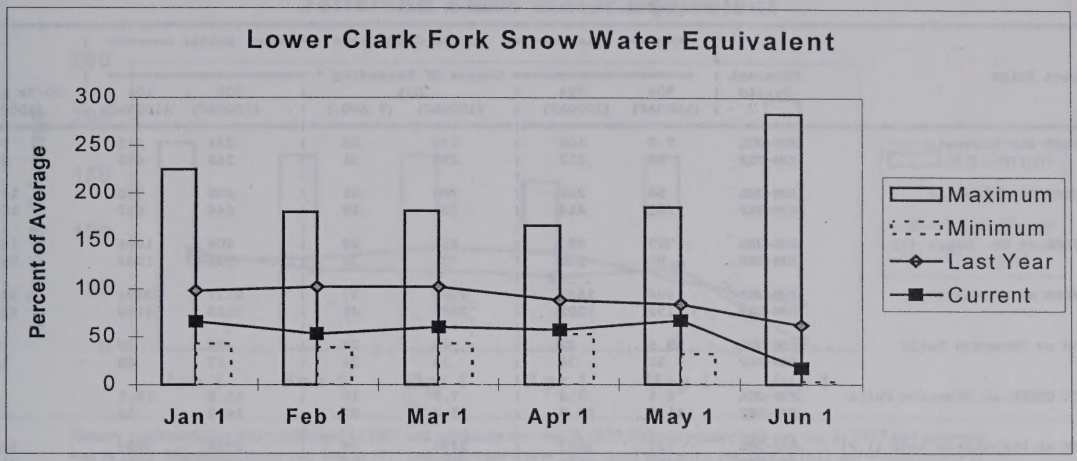
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

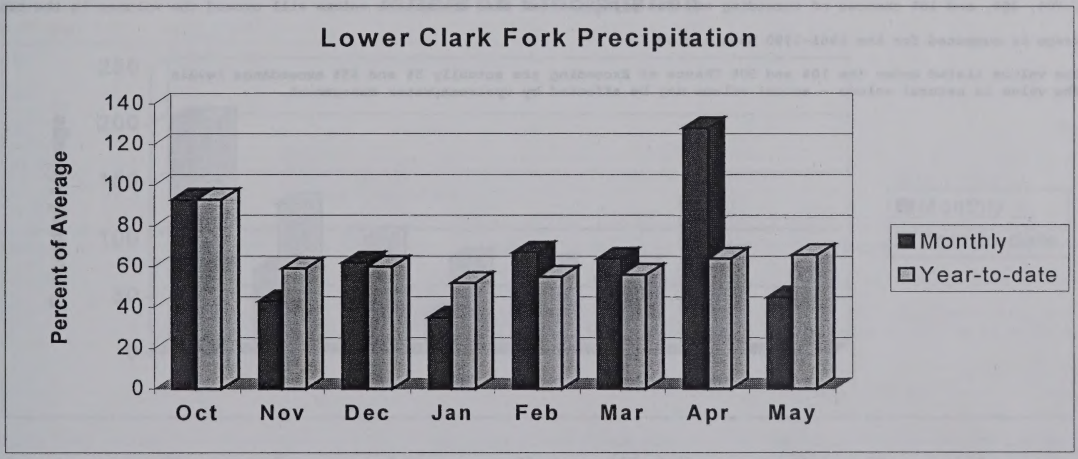
Lower Clark Fork River Basin

Snowpack conditions in the Lower Clark Fork River Basin were severely below average and tied for third lowest year of record with 1977 and 1987. Snow water content was 17 percent of average and 27 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum swe was in 1981; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1961 through 1990.

Mountain precipitation during May was 51 percent of average and 63 percent of last year. Valley precipitation during May was 45 percent of average and 48 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 62 percent of average and 64 percent of last year.



Noxon Rapids storage was 112 percent of average and 95 percent of last year.

Noxon Rapids storage was 110 percent of average and 98 percent of last year.

Surface Water Supply Index (SWSI) was -3.7 in the Clark Fork River below Bitterroot River and -3.3 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK abv Missoula	JUN-JUL	7.0	108	176	23	244	345	753
	JUN-SEP	98	212	290	31	368	482	947
CLARK FORK blw Missoula	JUN-JUL	50	202	305	21	408	560	1490
	JUN-SEP	243	414	530	29	646	817	1801
CLARK FORK at St. Regis (1)	JUN-JUL	327	385	425	22	606	1004	1903
	JUN-SEP	80	528	732	32	936	1384	2313
CLARK FORK nr Plains (1,2)	JUN-JUL	686	1593	2005	37	2417	3324	5457
	JUN-SEP	1192	2202	2660	41	3118	4128	6486
THOMPSON nr Thompson Falls	JUN-JUL	18.5	22	24	27	32	43	89
	JUN-SEP	32	36	39	34	47	60	116
PROSPECT CREEK at Thompson Falls	JUN-JUL	6.4	7.3	7.9	18	11.2	16.1	44
	JUN-SEP	11.0	12.3	13.2	25	16.7	22	53
CLARK FK at Whitehorse Rpds (1,2)	JUN-JUL	797	1827	2295	38	2763	3793	5984
	JUN-SEP	1408	2558	3080	43	3602	4752	7166

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	306.8	314.3	279.6

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
LOWER CLARK FORK BASIN	7	27	17

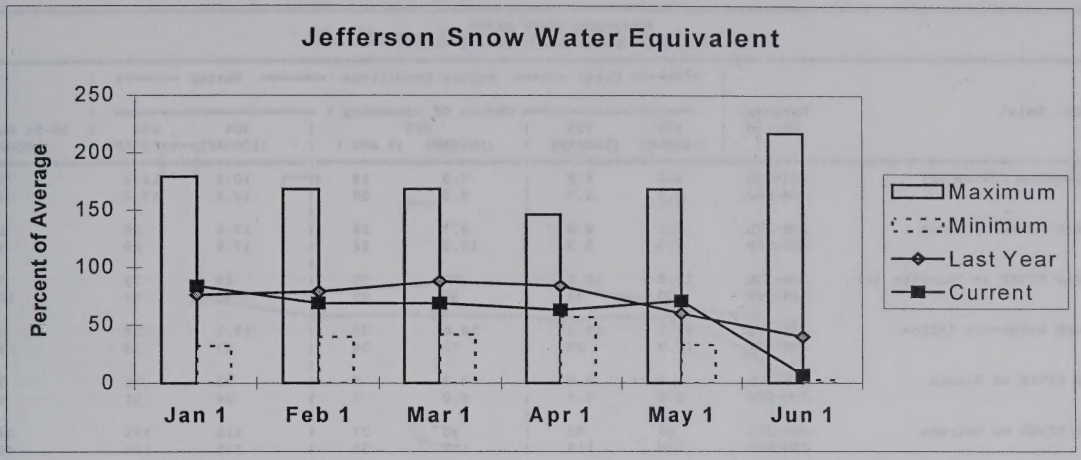
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

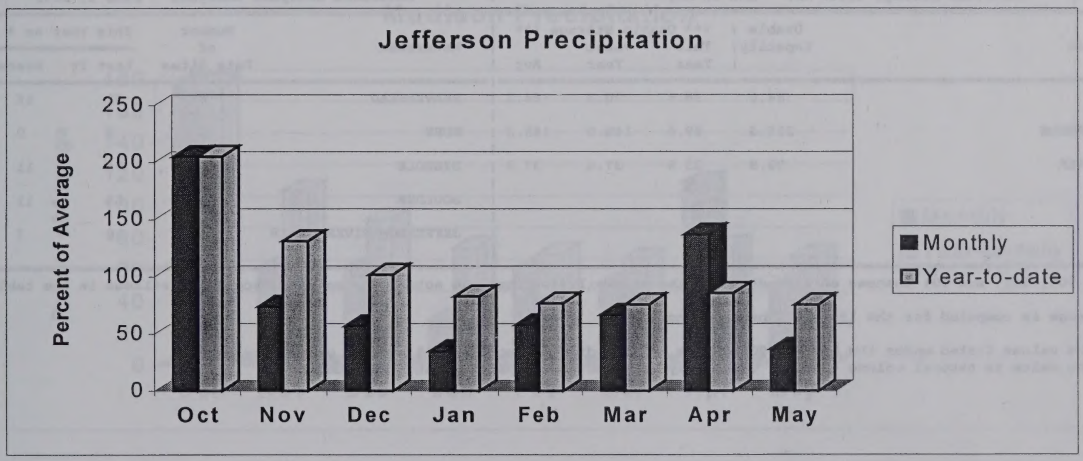
Jefferson River Basin

Snowpack conditions in the Jefferson River Basin were severely below average and tied for second lowest of record with 1987 and 1992. Snow water content was 7 percent of average and 18 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain precipitation during May was 38 percent of average and 40 percent of last year. Valley precipitation during May was 34 percent of average and 33 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 76 percent of average and 91 percent of last year.



Lima storage was 57 percent of average and 52 percent of last year; Clark Canyon storage was 60 percent of average and 69 percent of last year; and Ruby River storage was 89 percent of average and 90 percent of last year.

Surface Water Supply Index (SWSI) was -3.0 in the Beaverhead River; -3.4 in the Ruby River; -3.8 in the Big Hole River; -3.7 in the Boulder River; and -3.7 in the Jefferson River as a whole.

JEFFERSON RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	JUN-JUL	6.0	6.8	7.3	19	10.1	14.3	39
	JUN-SEP	7.7	8.7	9.3	20	12.5	17.3	47
BEAVERHEAD RIVER nr Grant	JUN-JUL	6.1	8.2	9.7	19	17.4	29	52
	JUN-SEP	7.7	9.3	10.3	14	17.8	29	75
BEAVERHEAD RIVER at Barretts (2)	JUN-JUL	16.8	19.8	22	30	29	39	73
	JUN-SEP	23	27	30	29	40	54	104
RUBY RIVER Reservoir Inflow	JUN-JUL	11.3	13.4	14.8	33	19.1	25	45
	JUN-SEP	17.9	20	22	36	27	33	61
BIG HOLE RIVER at Wisdom	JUN-JUL	0.5	2.8	4.3	8	23	51	57
	JUN-SEP	2.0	4.4	6.0	9	24	51	65
BIG HOLE RIVER nr Melrose	JUN-JUL	80	89	95	27	118	151	349
	JUN-SEP	105	115	122	30	145	180	406
BOULDER RIVER nr Boulder	JUN-JUL	3.1	4.6	5.6	14	12.7	23	40
	JUN-SEP	5.5	9.8	12.7	28	23	38	46
WILLOW CREEK Reservoir Inflow	JUN-JUL	0.6	0.7	0.8	7	1.8	3.3	10.8
	JUN-SEP	0.7	0.8	0.9	7	2.0	3.5	13.0
JEFFERSON RIVER nr Three Forks (2)	JUN-JUL	32	40	45	10	98	177	459
	JUN-SEP	53	69	80	15	154	263	551

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	36.6	70.3	64.2
CLARK CANYON	255.6	99.6	145.0	165.3
RUBY RIVER	38.8	33.8	37.6	37.9

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	8	31	16
RUBY	5	0	0
BIGHOLE	8	26	11
BOULDER	3	55	11
JEFFERSON RIVER BASIN	19	18	7

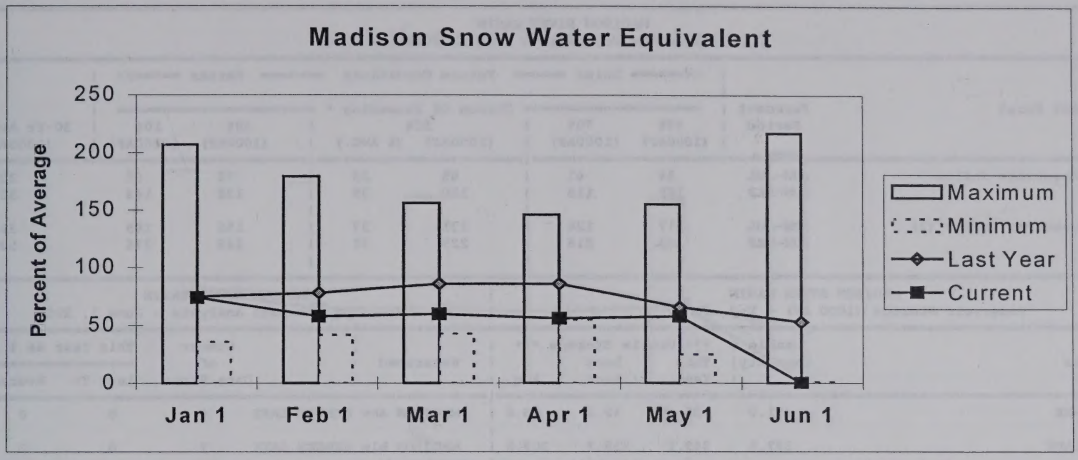
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

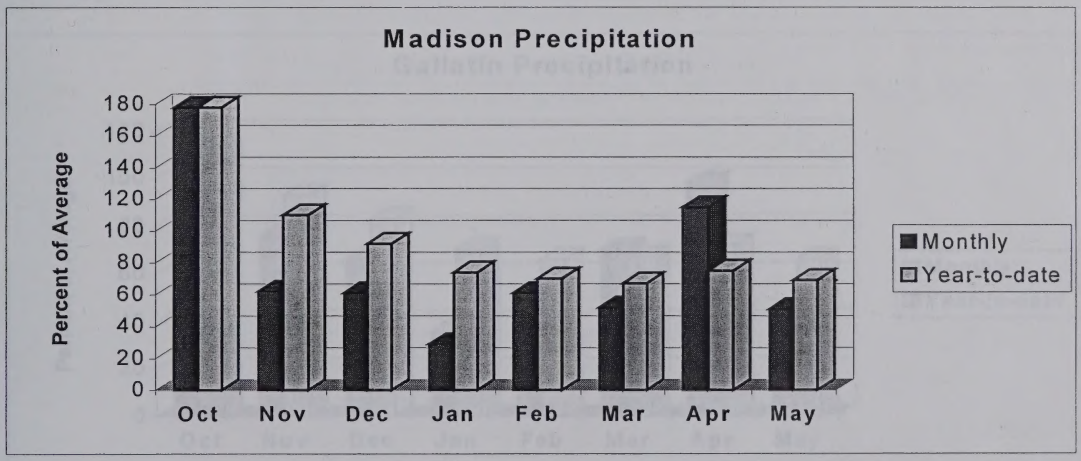
Madison River Basin

Snowpack conditions in the Madison River Basin were severely below average and tied for the lowest years of record with 1987 and 1992. All the snow reporting stations have melted out.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain and valley precipitation during May was 51 percent of average and 39 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 69 percent of average and 77 percent of last year.



Ennis Lake storage was 102 percent of average and 114 percent of last year and Hebgen Lake storage was 113 percent of average and 98 percent of last year.

Surface Water Supply Index (SWSI) was -2.1 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	JUN-JUL	56	61	65	33	76	92	200
	JUN-SEP	109	115	120	39	132	149	307
ENNIS Reservoir Inflow (2)	JUN-JUL	117	128	135	37	155	185	369
	JUN-SEP	203	216	225	42	246	276	538

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	36.6	32.1	35.8
HEBGEN LAKE	377.5	349.1	355.5	309.8

MADISON RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
MADISON abv HEBGEN LAKE	4	0	0
MADISON blw HEBGEN LAKE	7	0	0
MADISON RIVER BASIN	11	0	0

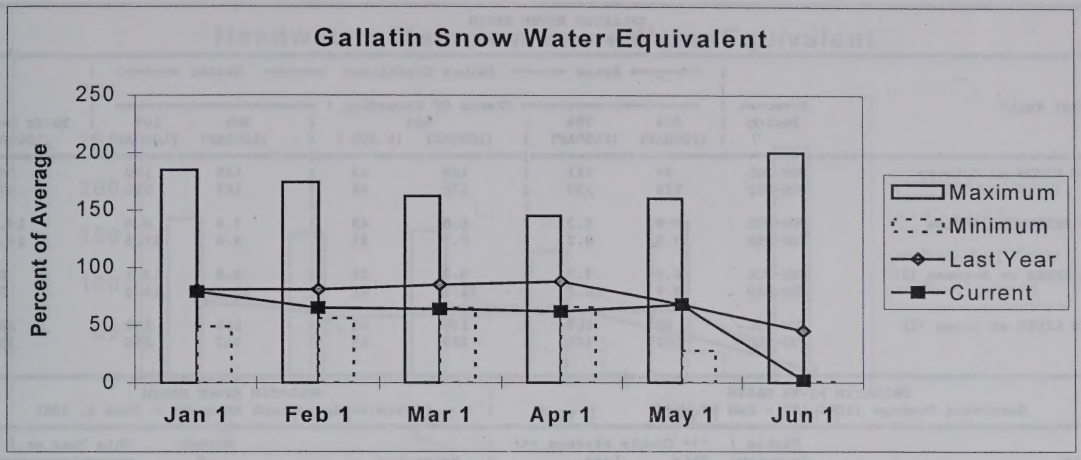
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

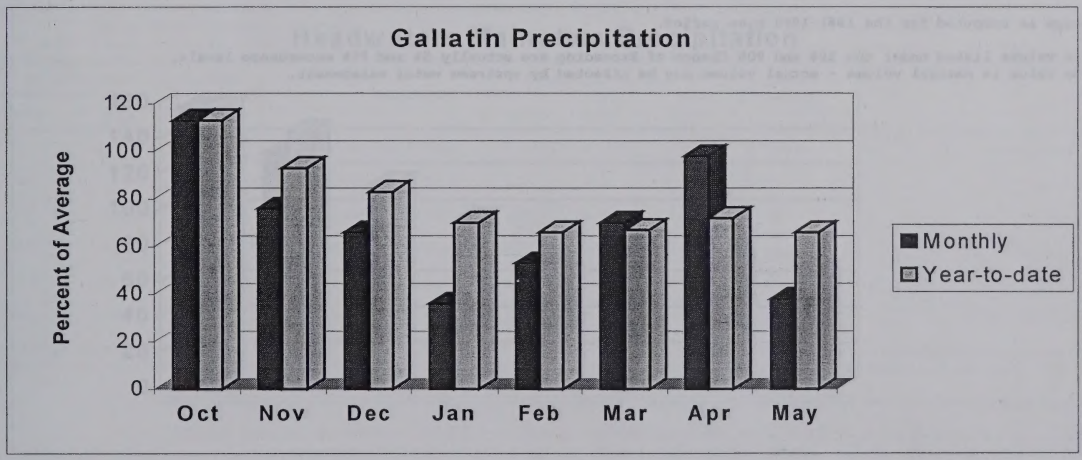
Gallatin River Basin

Snowpack conditions in the Gallatin River Basin were severely below average and tied with 1987 for the lowest year of record. Snow water content was 2 percent of average and 5 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1981; March maximum swe was in 1997 and minimum was in 1977 and 1987; April maximum swe was in 1997 and minimum was in 1987; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 1987. Average is for the period 1961 through 1990.

Mountain precipitation during May was 40 percent of average and 38 percent of last year. Valley precipitation during May was 17 percent of average and 15 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 66 percent of average and 77 percent of last year.



Middle Creek storage was 146 percent of average and 102 percent of last year.

Surface Water Supply Index (SWSI) was -3.3 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	JUN-JUL	86	111	128	43	145	170	295
	JUN-SEP	128	153	170	46	187	212	370
HYALITE RESERVOIR Inflow	JUN-JUL	5.6	6.3	6.8	43	7.9	9.6	16.0
	JUN-SEP	7.5	8.2	8.7	45	9.8	11.5	19.3
HYALITE CREEK nr Bozeman (2)	JUN-JUL	6.9	7.7	8.3	38	9.8	12.1	22
	JUN-SEP	9.9	10.8	11.5	41	13.1	15.5	28
GALLATIN RIVER at Logan (2)	JUN-JUL	68	105	130	45	155	192	287
	JUN-SEP	102	148	180	49	212	258	370

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	10.2	10.0	7.0

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	3	0	0
HYALITE	2	13	8
BRIDGER	2	0	0
GALLATIN RIVER BASIN	7	5	2

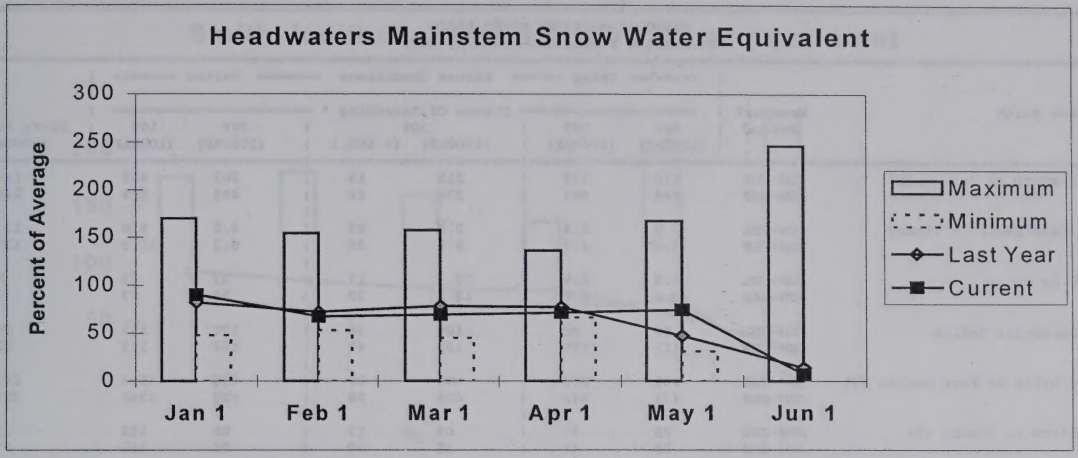
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

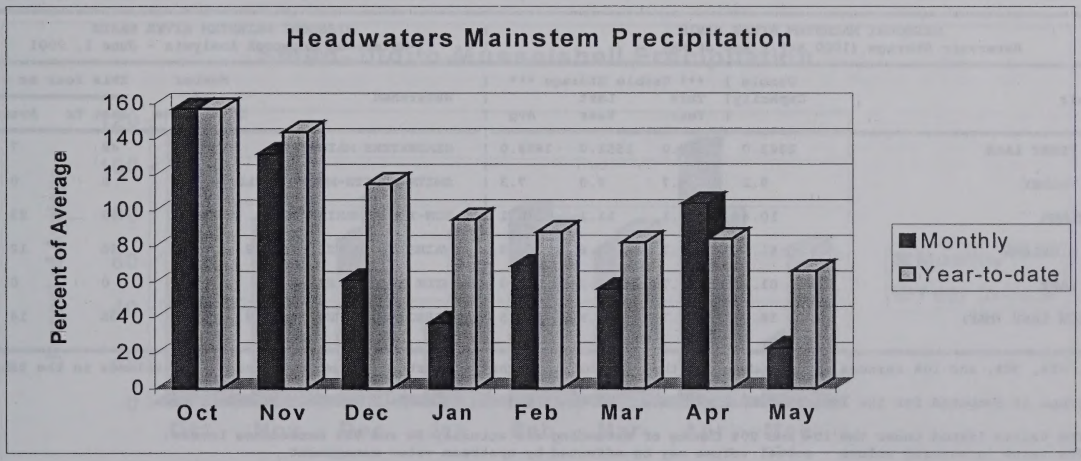
Missouri Mainstem River Basin

Snowpack conditions in the Headwaters Missouri Mainstem River Basin were severely below average and tied for second lowest years of 1985 and 1994. Snow water content was 7 percent of average and 48 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain precipitation during May was 31 percent of average and 46 percent of last year. Valley precipitation during May was 25 percent of average and 37 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 71 percent of average and 101 percent of last year.



Canyon Ferry Lake storage was 95 percent of average and 101 percent of last year; Helena Valley storage was 119 percent of average and 97 percent of last year; Lake Helena storage was 110 percent of average and 100 percent of last year; Hauser & Helena storage was 128 percent of average and 122 percent of last year; Holter Lake storage was 103 percent of average and 99 percent of last year; and Fort Peck Lake storage was 82 percent of average and 85 percent of last year.

Surface Water Supply Index (SWSI) was -3.0 in the Missouri River above Canyon Ferry; -2.6 in the Missouri River below Canyon Ferry; -2.0 in the Missouri River above Fort Peck; and -2.1 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<= Drier = Future Conditions = Wetter =>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	JUN-JUL	172	198	215	19	307	442	1120
	JUN-SEP	248	348	375	26	495	584	1461
PRICKLY PEAR CREEK nr Clancy	JUN-JUL	2.0	2.4	2.7	23	4.0	6.0	12.0
	JUN-SEP	3.3	4.7	5.6	35	8.3	12.2	15.8
DEARBORN nr Craig	JUN-JUL	1.3	6.8	10.5	17	33	65	63
	JUN-SEP	2.4	8.8	13.2	20	35	67	67
GIBSON Reservoir Inflow	JUN-JUL	80	92	100	36	122	155	281
	JUN-SEP	111	125	135	41	158	193	329
MISSOURI RIVER at Fort Benton (2)	JUN-JUL	292	386	450	27	686	1034	1671
	JUN-SEP	421	542	625	28	920	1355	2262
MARIAS RIVER nr Shelby (2)	JUN-JUL	25	37	45	19	88	152	236
	JUN-SEP	35	47	55	20	96	157	277
MISSOURI RIVER at Virgelle (2)	JUN-JUL	217	341	425	22	807	1370	1942
	JUN-SEP	401	558	664	26	1073	1675	2564
MISSOURI RIVER nr Landusky (2)	JUN-JUL	295	450	555	26	960	1555	2109
	JUN-SEP	480	629	730	26	1119	1693	2792
MISSOURI RIVER below Fort Peck (2)	JUN-JUL	237	399	510	25	952	1604	2072
	JUN-SEP	437	611	730	29	1139	1742	2490
LAKE SAKAKAWEA Inflow (2)	JUN-JUL	1256	1476	1625	29	2139	2896	5540
	JUN-SEP	1398	1927	2100	30	2771	3285	6989

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1568.0	1551.0	1659.0
HELENA VALLEY	9.2	8.7	9.0	7.3
LAKE HELENA	10.4	11.1	11.1	10.1
HAUSER & HELENA	61.9	77.7	63.6	60.9
HOLTER LAKE	81.9	80.7	81.3	78.0
FORT PECK LAKE (MAF)	18.9	12.7	14.9	15.5

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	5	48	7
SMITH-JUDITH-MUSSELSHELL	7	0	0
SUN-TETON-MARIAS	6	49	23
MAINSTEM ab FT PECK RES	17	36	12
MILK RIVER BASIN	4	0	0
MISSOURI MAINSTEM BASIN	20	35	14

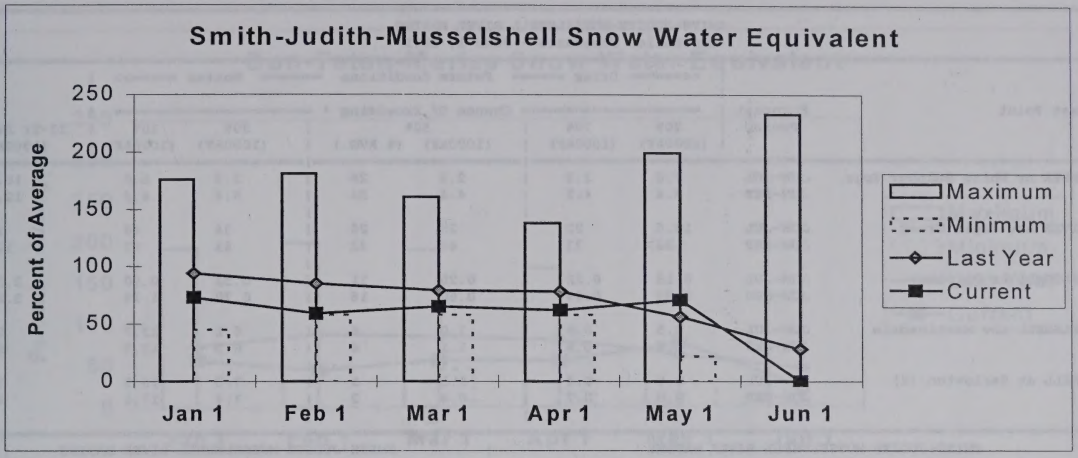
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

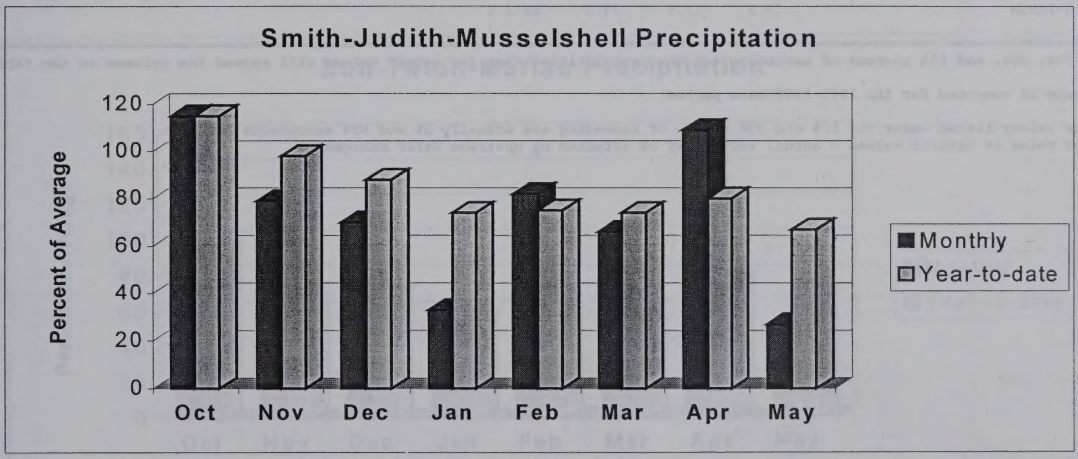
Smith-Judith-Musselshell River Basins

Snowpack conditions in the Smith-Judith-Musselshell River Basins were severely below average and tied with the previous low years of 1987 and 1992. All snow reporting stations have melted out.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1982 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain and valley precipitation during May in the Smith-Belts was 33 percent of average and 41 percent of last year; in the Judith was 26 percent of average and 37 percent of last year; and in the Musselshell was 25 percent of average and 32 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 67 percent of average and 84 percent of last year.



Smith River storage was 38 percent of average and 63 percent of last year; Bair storage was 31 percent of average and 79 percent of last year; Martinsdale storage was 11 percent of average and 32 percent of last year; and Deadman's Basin was 25 percent of average and 36 percent of last year.

Surface Water Supply Index (SWSI) was -3.7 in the Smith River and -3.9 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	JUN-JUL	2.0	2.3	2.6	26	3.6	5.0	10.0
	JUN-SEP	3.6	4.1	4.4	34	5.4	6.9	12.9
SMITH RIVER abv Eagle Creek	JUN-JUL	18.6	22	25	28	34	48	90
	JUN-SEP	23	33	40	32	61	93	125
NF MUSSELSHELL nr Delpine	JUN-JUL	0.18	0.22	0.25	11	0.51	0.90	2.30
	JUN-SEP	0.39	0.46	0.50	16	0.78	1.19	3.10
SF MUSSELSHELL abv Martinsdale	JUN-JUL	0.5	0.8	1.0	4	6.1	13.7	26
	JUN-SEP	0.6	0.9	1.1	4	6.3	13.9	29
MUSSELSHELL at Harlowton (2)	JUN-JUL	0.0	0.4	0.5	1	7.0	16.5	39
	JUN-SEP	0.0	0.7	0.8	2	7.4	17.1	42

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	4.0	6.3	10.5
NEWLAN CREEK		NO REPORT		
BAIR	7.0	1.9	2.4	6.2
MARTINSDALE	23.1	1.9	5.9	17.2
DEADMAN'S BASIN	72.2	13.6	37.3	55.1

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	4	0	0
JUDITH	4	0	0
MUSSELSHELL	2	0	0
SMITH-JUDITH-MUSSELSHELL	7	0	0

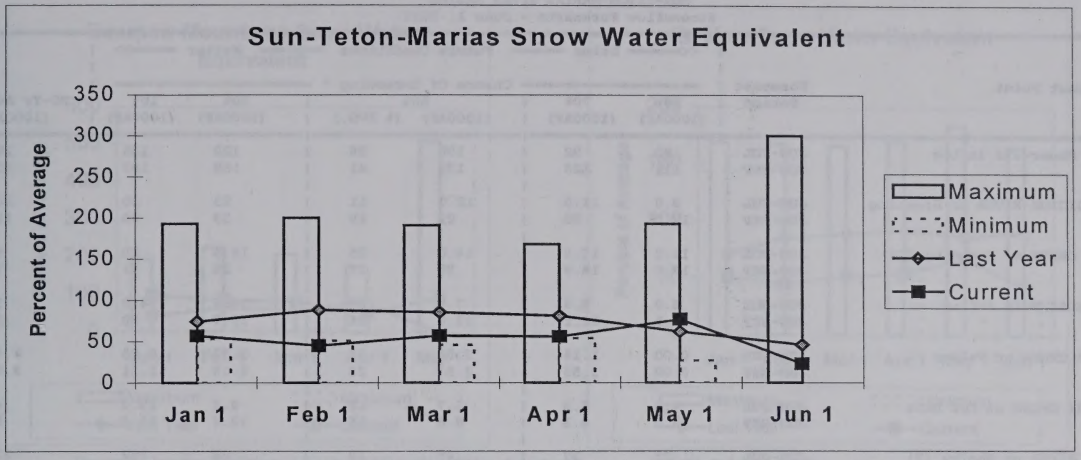
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

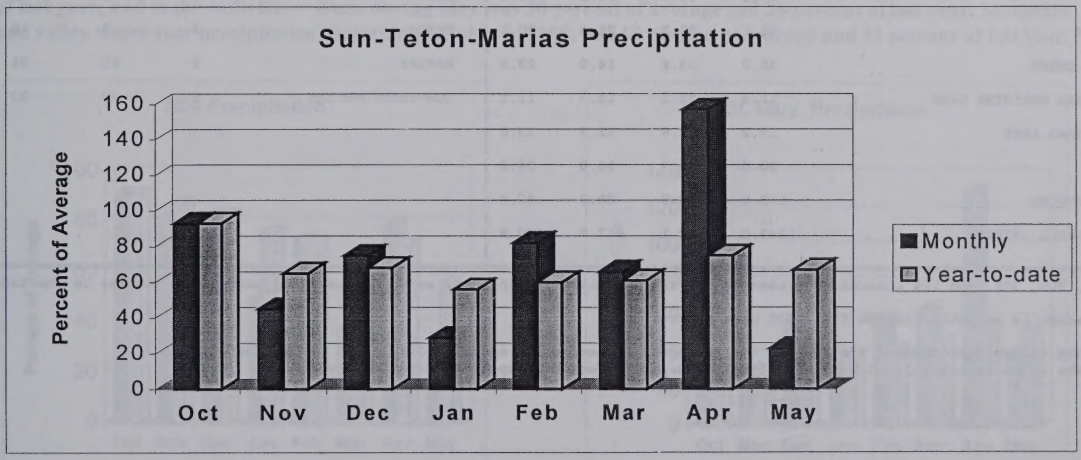
Sun-Teton-Marias River Basins

Snowpack conditions in the Sun-Teton-Marias River Basins were severely below average and third lowest of record. Snow water content was 23 percent of average and 49 percent of last year. All snow reporting stations in the Sun and Teton River Basins have melted out and Badger Pass is the only station in the Marias with snow remaining.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1984; April maximum swe was in 1972 and minimum swe was in 1984; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1982 and minimum swe was in 1992. Average is for the period 1961 through 1990.

Mountain and valley precipitation during May in the Sun was 10 percent of average and 14 percent of last year; in the Teton was 29 percent of average and 33 percent of last year; and in the Marias was 24 percent of average and 33 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 67 percent of average and 72 percent of last year.



Gibson storage was 86 percent of average and 82 percent of last year; Pishkun storage was 92 percent of average and 97 percent of last year; Willow Creek storage was 83 percent of average and 169 percent of last year; Lower Two Medicine Lake storage was 113 percent of average and 99 percent of last year; Four Horns Lake storage was 91 percent of average and 101 percent of last year; Swift storage was 63 percent of average and 98 percent of last year; Lake Frances storage was 31 percent of average and 96 percent of last year; and Lake Elwell (Tiber) storage was 107 percent of average and 91 percent of last year.

Surface Water Supply Index (SWSI) was -3.0 in the Sun River; -3.9 in the Teton River; -3.9 in the Birch/Dupuyer Creeks; and -2.6 in the Marias River.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	JUN-JUL	80	92	100	36	122	155	281
	JUN-SEP	111	125	135	41	158	193	329
TWO MEDICINE RIVER nr Browning	JUN-JUL	9.0	11.0	12.0	11	23	39	105
	JUN-SEP	17.0	20	22	19	33	49	117
BADGER CREEK nr Browning (2)	JUN-JUL	11.2	12.9	14.0	25	18.6	25	57
	JUN-SEP	17.0	18.8	20	27	25	31	74
SWIFT RESERVOIR Inflow	JUN-JUL	6.0	6.9	7.5	20	10.5	14.9	38
	JUN-SEP	11.1	12.2	13.0	26	16.0	20	50
DUPUYER CREEK nr Valier	JUN-JUL	0.00	1.14	2.00	26	5.32	10.20	7.60
	JUN-SEP	0.00	1.55	2.50	26	6.15	11.51	9.50
CUT BANK CREEK at Cut Bank	JUN-JUL	4.8	5.3	5.7	12	8.6	13.0	47
	JUN-SEP	7.5	8.3	8.8	16	12.0	16.6	56
MARIAS RIVER nr Shelby (2)	JUN-JUL	25	37	45	19	88	152	236
	JUN-SEP	35	47	55	20	96	157	277
TETON nr Dutton	JUN-JUL	0.4	0.7	0.8	3	5.6	12.6	30
	JUN-SEP	0.6	0.9	1.0	3	5.8	12.8	39

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	77.7	95.3	90.1
PISHKUN	32.0	27.7	28.6	30.1
WILLOW CREEK	32.2	23.6	14.0	28.5
LOWER TWO MEDICINE LAKE	11.9	12.5	12.6	11.1
FOUR HORNS LAKE	19.2	11.8	11.7	13.0
SWIFT	30.0	15.7	16.0	24.8
LAKE FRANCES	112.0	27.0	28.2	87.4
LAKE ELWELL (TIBER)	1347.0	742.1	817.7	690.8

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	2	0	0
TETON	3	0	0
MARIAS	3	61	31
SUN-TETON-MARIAS	6	49	23

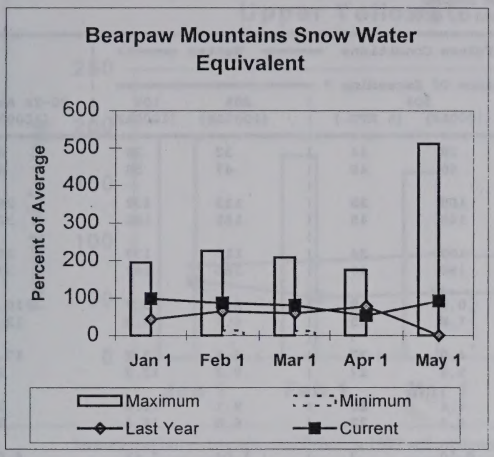
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

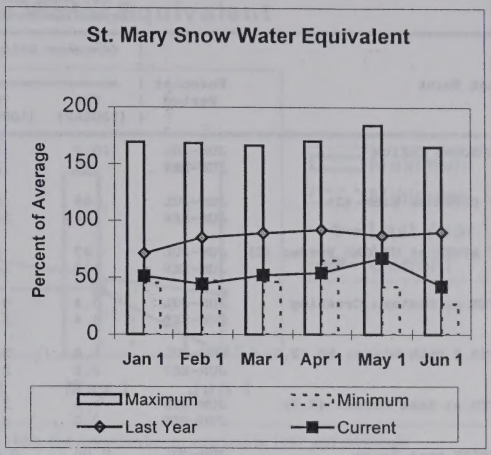
The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

St. Mary and Milk River Basins

Snowpack conditions in the St. Mary were severely below above average. Snow water content was 42 percent of average and 46 percent of last year and third lowest of record. The Milk River Basin (Bearpaw Mountains) has melted out.

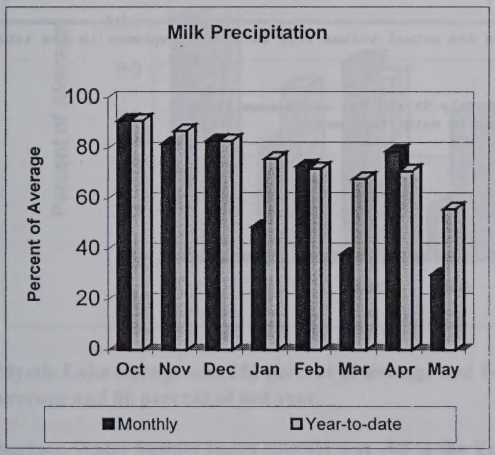


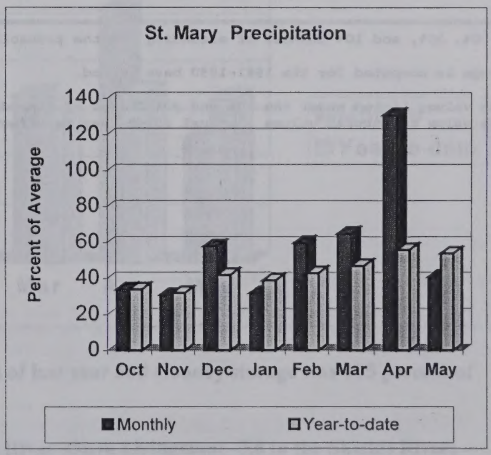


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 1981; April maximum swe was in 1975 and minimum swe was in 1983; May maximum swe was 1975 and the minimum has occurred in several years. Average is for the period 1961 through 1990.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1992; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1991 and minimum swe was 1992. Average is for the period 1961 through 1990.

Mountain and valley precipitation in the St. Mary River Basin during May was 41 percent of average and 53 percent of last year; and in the Milk River Basin during May was 30 percent of average and 36 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 55 percent of average and 59 percent of last year.





Lake Sherburne storage was 45 percent of average and 88 percent of last year; Fresno storage was 14 percent of average and 25 percent of last year; Beaver Creek storage was 79 percent of average and 70 percent of last year; and Nelson storage was 32 percent of average and 54 percent of last year.

Surface Water Supply Index (SWSI) was -3.8 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	JUN-JUL	18.2	24	28	44	32	38	64
	JUN-SEP	22	33	40	49	47	58	81
ST. MARY RIVER nr Babb (2)	JUN-JUL	88	95	100	38	113	132	261
	JUN-SEP	134	142	148	45	161	180	329
ST. MARY RIVER at US/CAN Border (2)	JUN-JUL	87	95	100	34	115	137	298
	JUN-SEP	135	144	150	40	165	187	376
MILK RIVER at Western Crossing	JUN-JUL	0.4	0.7	0.8	8	2.9	5.7	10.4
	JUN-SEP	0.4	1.4	1.8	15	6.7	7.3	12.0
MILK RIVER @ Milk River, AB (2,3)	JUN-JUL	1.6	3.7	4.0	23	6.9	9.7	17.4
	JUN-SEP	2.1	2.4	5.8	27	9.3	13.3	21
MILK RIVER at East Cross. (2,3)	JUN-JUL	1.5	3.9	4.4	20	9.1	11.8	22
	JUN-SEP	3.0	4.9	6.1	22	6.8	16.4	27
BEAVER CREEK near Havre	JUN-JUL	0.00	0.00	0.10	3	1.04	2.42	4.00

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	14.4	16.4	32.0
FRESNO	127.0	12.7	51.2	89.1
BEAVER CREEK	3.5	2.3	3.3	2.9
NELSON	66.8	13.7	25.4	42.6

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	2	46	42
BEARPAW MOUNTAINS	4	0	0
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	4	0	0
ST. MARY & MILK BASINS	6	44	41

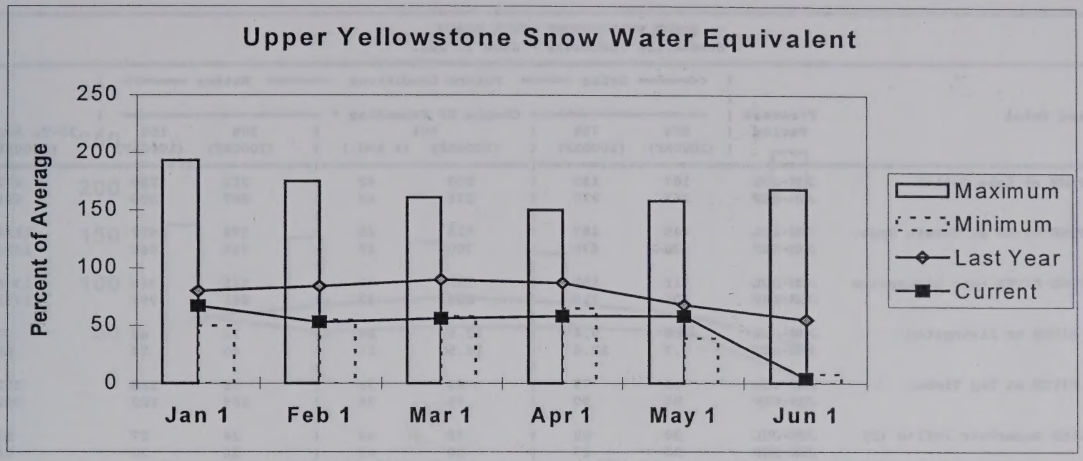
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

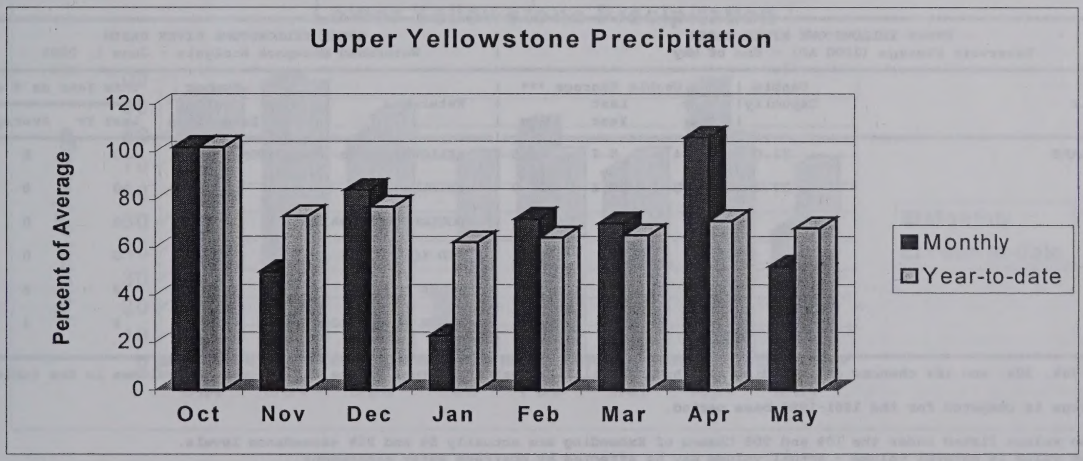
Upper Yellowstone River Basin

Snowpack conditions in the Upper Yellowstone River Basin were well severely below average. Snow water content was 4 percent of average and 8 percent of last year. This is a new record low falling below 1987 and 1994.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1997 and minimum swe was in 1977; April maximum swe was in 1971 and minimum swe was in 1981; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1982 and minimum swe was in 1987 and 1994. Average is for the period 1961 through 1990.

Mountain precipitation during May was 62 percent of average and 52 percent of last year. Valley precipitation during May was 25 percent of average and 23 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 68 percent of average and 76 percent of last year.



Mystic Lake storage was 153 percent of average and 147 percent of last year and Cooney storage was 105 percent of average and 80 percent of last year.

Surface Water Supply Index (SWSI) was -3.5 in the Yellowstone River above Livingston; -3.8 in the Shields River; -3.9 in the Boulder River; -3.6 in the Stillwater River; -3.7 in the Rock/Red lodge Creeks; -3.9 in the Clarks Fork River; and -3.6 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	JUN-JUL	187	195	200	42	212	230	472
	JUN-SEP	263	270	275	40	287	306	691
YELLOWSTONE RIVER at Corwin Spgs.	JUN-JUL	445	487	515	45	578	672	1156
	JUN-SEP	625	670	700	47	765	860	1484
YELLOWSTONE RIVER near Livingston	JUN-JUL	511	552	580	43	645	740	1335
	JUN-SEP	601	719	800	47	881	999	1721
SHIELDS RIVER nr Livingston	JUN-JUL	4.8	9.4	12.5	16	32	60	77
	JUN-SEP	6.7	12.6	16.5	17	40	74	95
BOULDER RIVER at Big Timber	JUN-JUL	73	79	84	33	98	118	253
	JUN-SEP	83	90	95	34	109	129	282
MYSTIC LAKE Reservoir Inflow (2)	JUN-JUL	20	22	22	44	24	27	51
	JUN-SEP	28	29	30	44	32	35	69
STILLWATER RIVER nr Absarokee (2)	JUN-JUL	145	157	165	43	184	211	380
	JUN-SEP	194	207	215	45	234	261	475
CLARKS FORK RIVER nr Belfry	JUN-JUL	121	132	140	35	162	195	395
	JUN-SEP	123	133	140	31	162	195	453
COONEY RESERVOIR Inflow (2)	JUN-JUL	2.5	4.8	6.3	26	12.2	21	24
	JUN-SEP	6.9	10.1	12.2	35	18.3	27	35
YELLOWSTONE RIVER at Billings (2)	JUN-JUL	898	1018	1100	44	1286	1559	2525
	JUN-SEP	1200	1399	1490	47	1726	1864	3159

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	8.4	5.7	5.5
COONEY	27.4	21.0	26.4	20.0

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
YELLOWSTONE ab LIVINGSTON	11	13	8
SHIELDS	4	0	0
BOULDER-STILLWATER	3	0	0
RED LODGE-ROCK CREEK	1	0	0
CLARK'S FORK	7	8	6
UPPER YELLOWSTONE BASIN	22	8	4

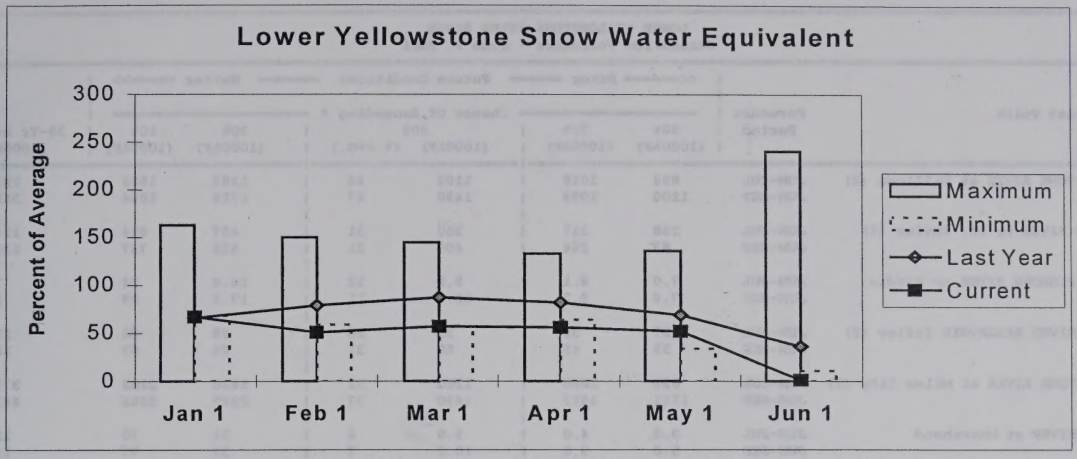
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

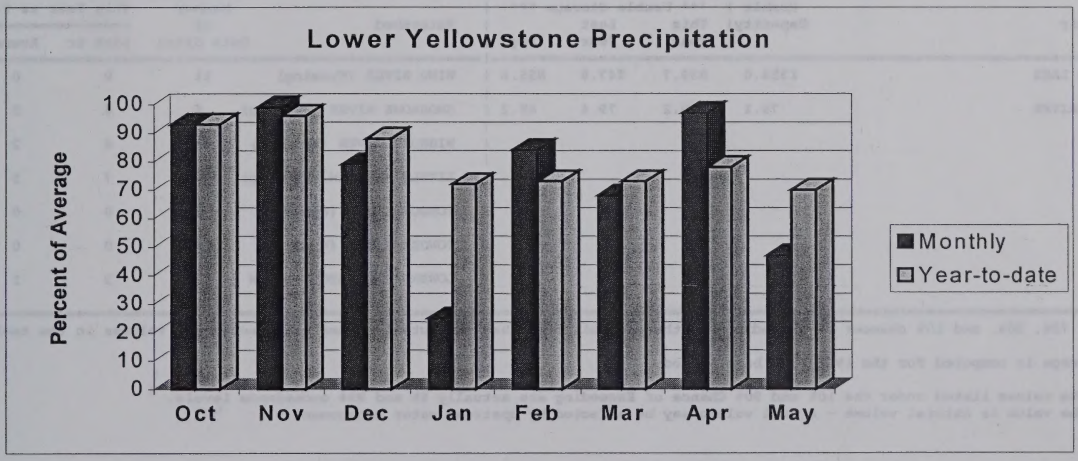
Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin, in Wyoming, were severely below average. Snow water content was 1 percent of average and 3 percent of last year. This is a new record low falling below 1987 and 1994.



January maximum swe was established in 1997 and minimum swe was in 1981; February maximum swe was in 1997 and minimum swe was in 1981; March maximum swe was in 1986 and minimum swe was in 1977; April maximum swe was in 1986 and minimum swe was in 1981; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 1994. Average is for the period 1961 through 1990.

Mountain and valley precipitation during May was 47 percent of average and 45 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2000, was 70 percent of average and 77 percent of last year.



Bighorn Lake storage was 98 percent of average and 89 percent of last year and Tongue River storage was 94 percent of average and 57 percent of last year.

Surface Water Supply Index (SWSI) was -3.1 in the Bighorn River below Bighorn Lake; -3.8 in the Little Bighorn River; -3.4 in the Yellowstone River below Bighorn River; -3.2 in the Tongue River; and -3.9 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - June 1, 2001

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE RIVER at Billings (2)	JUN-JUL	898	1018	1100	44	1286	1559	2525
	JUN-SEP	1200	1399	1490	47	1726	1864	3159
BIGHORN RIVER nr St. Xavier (2)	JUN-JUL	268	317	350	31	457	614	1141
	JUN-SEP	63	264	400	31	536	737	1306
LITTLE BIGHORN RIVER nr Hardin	JUN-JUL	7.0	8.1	8.8	12	14.8	24	75
	JUN-SEP	7.9	9.2	10.0	11	17.6	29	92
TONGUE RIVER RESERVOIR Inflow (2)	JUN-JUL	27	32	35	26	48	66	135
	JUN-SEP	39	45	50	31	65	87	161
YELLOWSTONE RIVER at Miles City (2)	JUN-JUL	854	1060	1200	32	1638	2282	3753
	JUN-SEP	1111	1513	1690	37	2245	2686	4631
POWDER RIVER at Moorehead	JUN-JUL	0.0	4.0	5.0	4	31	70	116
	JUN-SEP	5.0	8.0	10.0	7	37	77	138
POWDER RIVER near Locate	JUN-JUL	5.0	7.0	9.0	7	34	70	138
	JUN-SEP	8.0	12.0	15.0	9	48	97	162
YELLOWSTONE RIVER nr Sidney (2)	JUN-JUL	694	975	1165	30	1800	2734	3928
	JUN-SEP	1000	1566	1710	36	2143	2620	4763

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of May

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	839.7	947.6	855.6
TONGUE RIVER	79.1	45.2	79.4	48.2

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - June 1, 2001

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
WIND RIVER (Wyoming)	11	0	0
SHOSHONE RIVER (Wyoming)	6	4	2
BIGHORN RIVER (Wyoming)	16	4	2
LITTLE BIGHORN (Wyoming)	2	7	5
TONGUE RIVER (Wyoming)	6	0	0
POWDER RIVER (Wyoming)	6	0	0
LOWER YELLOWSTONE BASIN (	29	3	1

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

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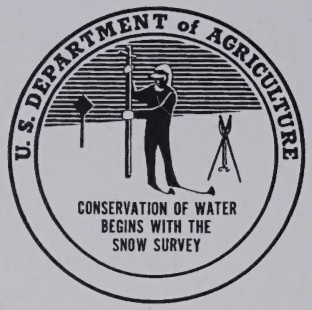
(2) - The value is natural volume - actual volume may be affected by upstream water management.



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Montana
Basin Outlook Report

Natural Resources Conservation Service
Bozeman, MT